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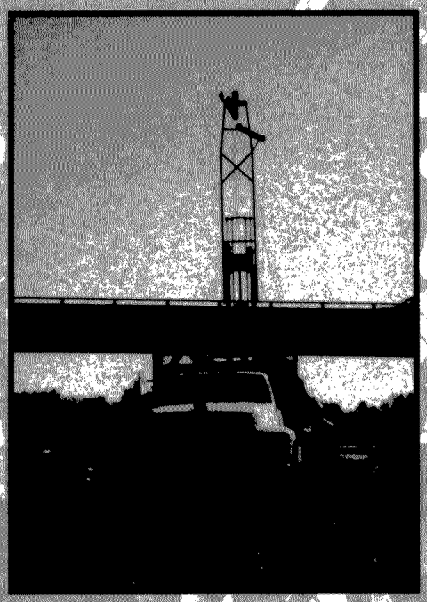
UNDERGROUND STORAGE TANK CLOSURE REPORT WALKER PROPERTY , 11102, 11120 AND 11240 BLOOMFIELD AVENUE SANTA FE SPRINGS, CALIFORNIA



Geotechnical

and

Environmental

Sciences

Consultants

Ninyo & Moore

UNDERGROUND STORAGE TANK CLOSURE REPORT WALKER PROPERTY 11020, 11102, 11120 AND 11240 BLOOMFIELD AVENUE SANTA FE SPRINGS, CALIFORNIA

PREPARED FOR:
Cenco Electric Company
12345 Lakeland Boulevard
Santa Fe Springs, California 90670

PREPARED BY:
Ninyo & Moore Geotechnical and Environmental Sciences Consultants
475 Goddard, Suite 200
Irvine, California 92618

March 15, 2002
Project No. 203571003

Ninyo & Moore Transmittal

475 Goddard, Suite 200, Irvine, California 92618 ◆ Phone 949/753-7070 ◆ Fax 949/753-7071 ◆ www.ninyoandmoore.com

To:	Ms. Brenda Nelson	**Date:**	March 22, 2002
Firm:	Santa Fe Springs Fire Department	**Fax No:**	562-941-1817
Address:	11300 Greenstone Avenue Santa Fe Springs, California 90670	**Telephone No:**	
From:	Paul A. Roberts	**Total Pages Including Transmittal:**	
Subject:	Clarification Letter	**Project No:**	203571003

☐ **Urgent**	☐ **For Approval**	☐ **For Your Use**	☐ **Please Reply**	☐ **As Requested**
Original Document:	☐ **Will Not Follow**	☐ **Will Follow**	☐ **By U.S. Mail**	☐ **By Other**

Dear Brenda:

Enclosed please find the Clarification Letter for the Underground Storage Tank Closure Report at the Walker Property. Also, please replace Figure 6 with the figure in the report. I noticed that the tank location was slightly off on the copy provided in the report. I will be sending you a hard copy of this letter and Figure via US mail. If there are any questions, please call me at 949-753-7070.

Thanks again for your timely response on this project.

Paul.

- **Geotechnical Engineering**
- **Engineering Geology**
- **Materials Testing and Inspection**
- **Construction Management**
- **Engineering Design**
- **Environmental Engineering**
- **Environmental Site Assessments**
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- **Asbestos and Lead-Based Paint Surveys**
- **Geophysical Studies**
- **Mineral Resource Evaluations**
- **Value Engineering**
- **Forensic Studies**
- **Expert Witness Testimony**

March 22, 2002
Project No. 203571003
Via Telecopy: 562-941-1817

Ms. Brenda Nelson
Santa Fe Springs Fire Department
11300 Greenstone Avenue
Santa Fe Springs, California 90670

Subject: Clarification Letter for the Underground Storage Tank Closure Report dated March 15, 2002
Walker Property
11020, 11102, 11120, and 11240 Bloomfield Avenue
Santa Fe Springs, California

Dear Ms. Nelson:

This letter presents our response to clarify the results of total chromium detected in soil samples as outlined in our Underground Storage Tank (UST) Closure Report dated March 15, 2002. Total chromium was detected in two shallow soil samples collected beneath the former 1,000-gallon waste oil UST. The concentrations that were detected were 18 and 26 milligrams per kilogram (mg/kg). The site is being purchased and redeveloped as a commercial property.

Chromium is a naturally occurring metal. Based on a publication titled Kearney Foundation of Soil Science (Kearney), background concentrations of chromium in California ranges from approximately 23 to 1,579 mg/kg (Kearney, 1996). In addition, laboratory results of other environmental investigations conducted at the site (which have been reviewed and closed by the Department of Toxic Substances Control [DTSC]) have indicated concentrations of total chromium up to 39.5 mg/kg. Based on this information and regulatory guidelines, the concentrations of total chromium reported at the site would be considered background concentrations and would not be an environmental or health concern.

Based on this information, Ninyo & Moore is requesting that a closure letter be submitted for the USTs outlined in our report dated March 15, 2002.

If you have any questions or comments regarding this letter, please call the undersigned at your convenience.

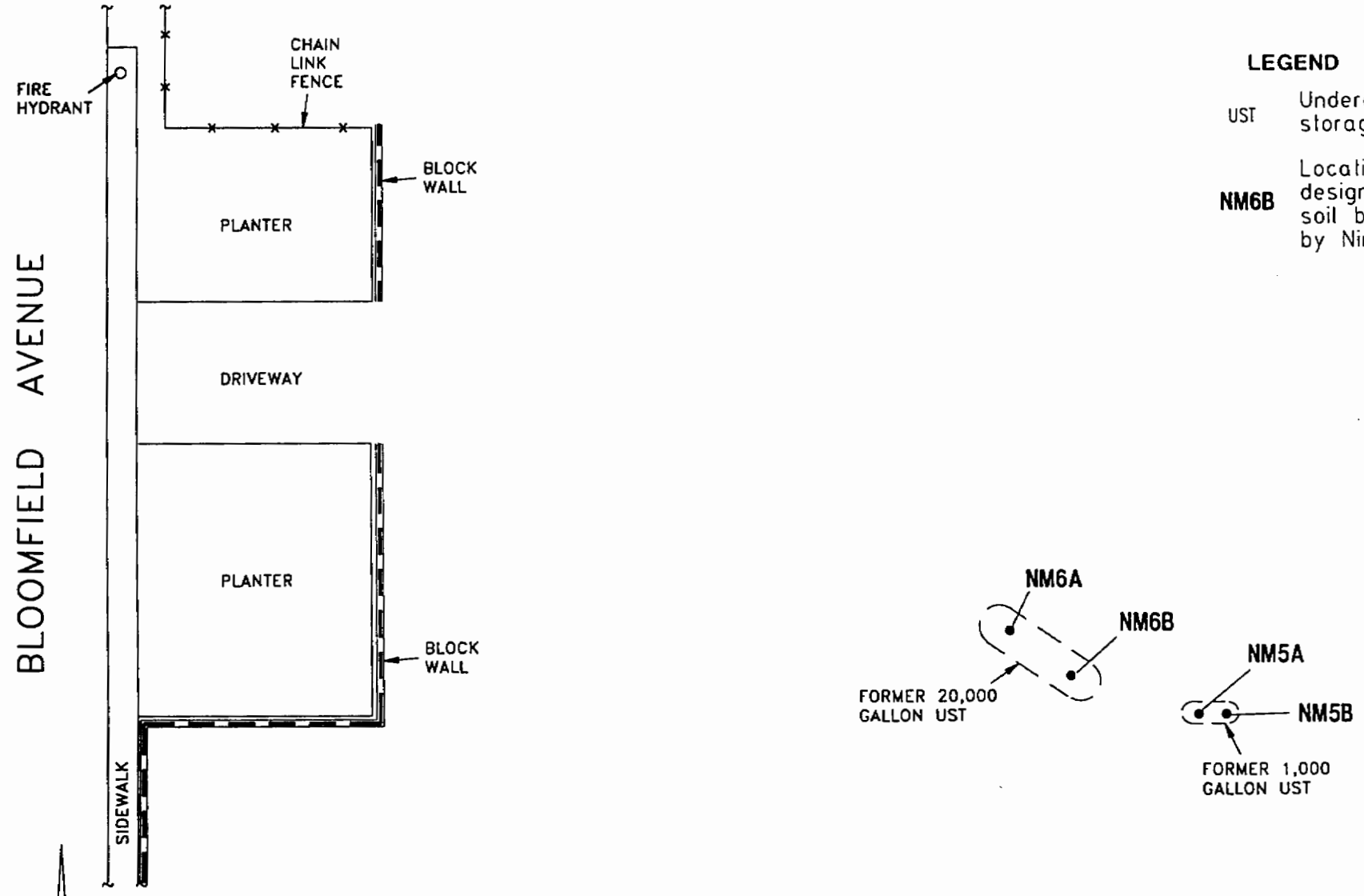
Sincerely,
NINYO & MOORE

Paul A. Roberts, R.G., R.E.A. I/II
Senior Environmental Geologist

PAR

Distribution: (1) Addressee
(1) Mr. Peter Rooney, SARES-REGIS Group
(1) Mr. Dave Henry, Hazard Management Consulting, Inc.
(1) Pam Andes, Esq., Allen Matkins

Kearney Foundation of Soil Science, Division of Agriculture and Natural Resources, University of California, 1996, Background Concentrations of Trace and Major Elements in California Soils, dated March.



NOTE: ALL DIMENSIONS AND LOCATION ARE APPROXIMATE.

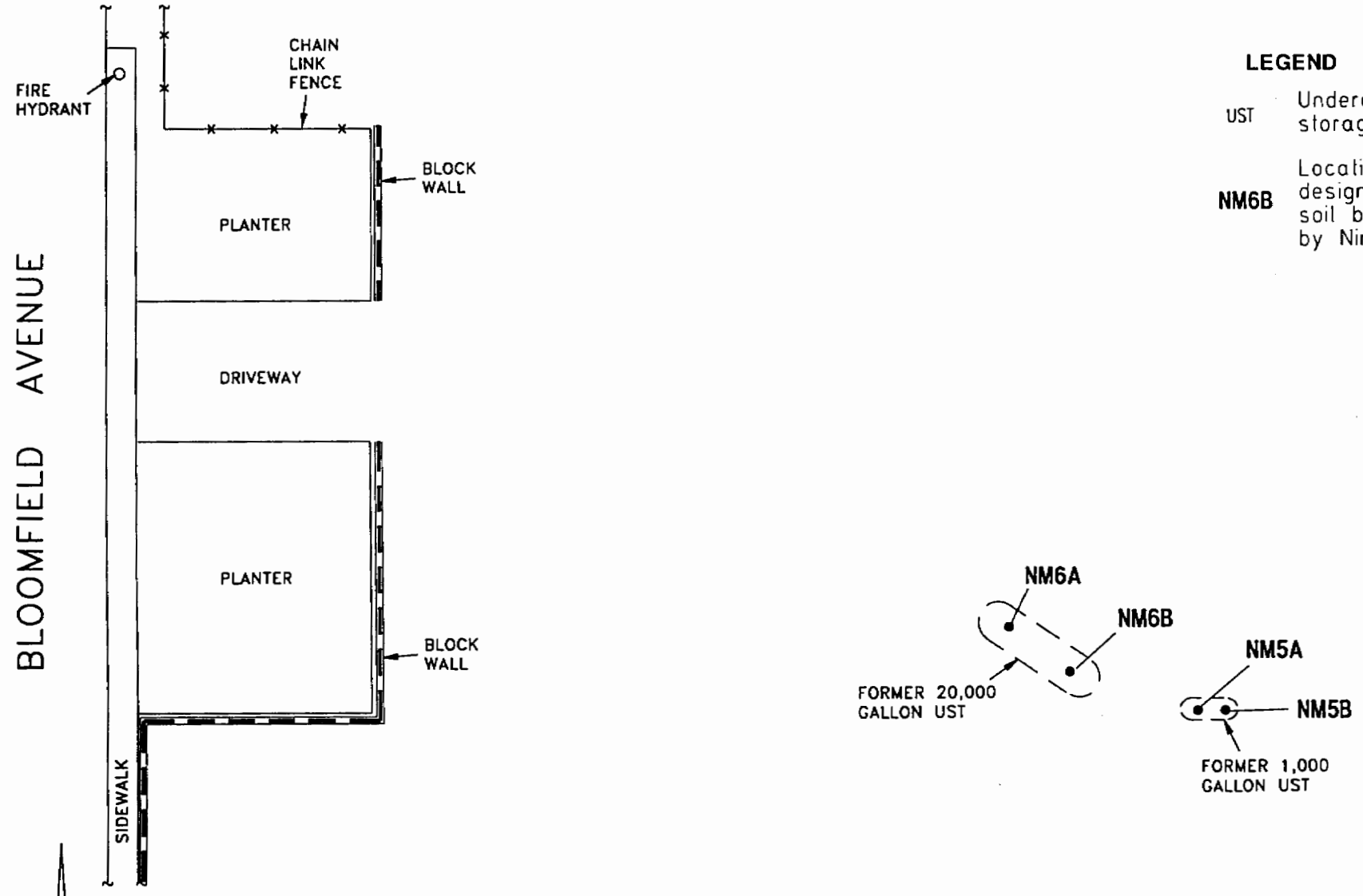
Ninyo & Moore

FORMER 1,000- AND 20,000-GALLON UNDERGROUND STORAGE TANKS

WALKER PROPERTY

SANTA FE SPRINGS, CALIFORNIA

PROJECT NO.	DATE	FIGURE
203571003	3/2002	6



NOTE: ALL DIMENSIONS AND LOCATION ARE APPROXIMATE.

Ninyo & Moore

FORMER 1,000- AND 20,000-GALLON UNDERGROUND STORAGE TANKS

WALKER PROPERTY

SANTA FE SPRINGS, CALIFORNIA

PROJECT NO.	DATE	FIGURE
203571003	3/2002	6

March 15, 2002
Project No. 203571003

Ms. June Christman
Cenco Electric Company
12345 Lakeland Boulevard
Santa Fe Springs, California 90670

Subject: Underground Storage Tank Closure Report
Walker Property
11020, 11102, 11120, and 11240 Bloomfield Avenue
Santa Fe Springs, California

Dear Ms. Christman:

Ninyo & Moore is pleased to present this Underground Storage Tank Closure Report for the subject site. The attached report presents our findings, conclusions, or recommendations, regarding the subject site. We appreciate the opportunity to be of service on this project. Should you have any questions regarding our report, please contact me at your convenience.

Sincerely,
NINYO & MOORE

Paul A. Roberts, R.G., R.E.A. I/II
Senior Environmental Geologist

PAR/klb

Distribution: (2) Addressee
(2) Ms. Brenda Nelson, Santa Fe Springs Fire Department

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1. INTRODUCTION AND SITE INFORMATION

Cenco Electric Company (Cenco) authorized Ninyo & Moore to perform underground storage tank (UST) closure activities at the Walker Property located at 11020, 11102, 11120, and 11240 Bloomfield Avenue in Santa Fe Springs, California (site; Figure 1). Work was conducted in general accordance with the proposal, dated March 4, 2002, between Cenco and Ninyo & Moore, and the approved Work Plan dated March 5, 2002. Work was conducted under the direction of the Santa Fe Springs Fire Department (SFSFD). Cenco, current owner of the site, is planning to sell the property to a developer. Prior to issuing building permits, the City of Santa Fe Springs requires that all open UST cases be closed through the SFSFD or other regulatory agency.

Ninyo & Moore recently completed a Phase I Environmental Site Assessment (ESA) for the site for a potential buyer of the property. The Phase I ESA included reviewing numerous environmental reports from agency files including the SFSFD, the Regional Water Quality Control Broad, Los Angeles Region (RWQCB), the Los Angeles County Department of Public Works (LADPW), and the California Department of Toxic Substances Control (DTSC). The site is located within the Santa Fe Springs Oil Field. Oil production and refining have occurred in the site vicinity. The site was formerly used, since the early-1900s, to store crude oil and petroleum hydrocarbon products, and store off-site derived oil well drilling fluids and muds. From the 1960s to the 1980s, the western portion of the site was used by an oil recycling company, a commercial utility trailer sales company, a rubbish disposal service, construction company, an industrial gas company (AIRCO), and a facility that manufactured wastewater treatment systems. During this time, the USTs discussed herein were installed by the former tenants.

Numerous environmental investigations have been conducted throughout the site from 1985 through 2001, under the direction of the DTSC, RWQCB, LADPW, and SFSFD, regarding historical environmental issues and in the vicinity of some of the USTs. Groundwater has been measured from on-site monitoring wells at depths of approximately 78 to 98 feet below the ground surface (bgs). Groundwater has been impacted with petroleum hydrocarbons by the former Powerine Refinery (Powerine) located immediately northwest of the site and possibly other

off-site sources. Powerine currently conducts semi-annual groundwater monitoring from on-site wells and wells located in the site vicinity.

During the environmental investigations, the site was segregated into four areas, two of which included the Lakewood Section and the Balboa Pacific Section. Based on our Phase I ESA, six USTs that were not issued regulatory closure letters were historically removed from the site in the Lakewood Section and Balboa Pacific Section. Below is a summary of our findings regarding the USTs:

Capacity (gallons)	Former Contents	Location	Removed/Closure
3,000	Unknown, petroleum product	Lakewood Section	Yes/No
4,000	Gasoline	Lakewood Section	Yes/No
6,000	Gasoline	Lakewood Section	Yes/No
10,000	Gasoline	Lakewood Section	Yes/No
20,000	Gasoline and/or diesel	Balboa Pacific Section	Yes/No
1,000	Waste oil	Balboa Pacific Section	Yes/No

The 1,000-gallon waste oil UST and 20,000-gallon fuel UST formerly located in the Balboa Pacific Section were reportedly never used. These USTs were installed in approximately 1983 or 1984 by AIRCO, a former tenant of the site (Christman, 2002). AIRCO was hired by Powerine to process and store carbon dioxide gas from the refinery. Before operations could commence, Powerine filed for bankruptcy and AIRCO left the site (Christman, 2002). A contractor removed these USTs in 1990 and no confirmation samples or closure report was prepared. The only document discovered was a receipt from a contractor indicating that the USTs were removed and never used. A copy of the receipt is included in Appendix A.

The remaining four USTs were removed prior to 1990, confirmation samples were collected and laboratory analyses showed a limited area of petroleum hydrocarbon impacted soil in the vicinity of the 10,000-gallon UST. Laboratory results of soil samples collected in the vicinity of the remaining USTs showed no detectable to low concentrations of petroleum hydrocarbons. A closure

report was prepared and submitted to the Los Angeles Department of Public Works (the lead regulatory agency at the time). No closure letters have been issued. Copies of the closure report are presented in Appendix A.

Cenco has retained Ninyo & Moore to obtain closure letters from the SFSFD for the six USTs. As pursuant to the current RWQCB guidelines, soil samples must be collected for analysis of methyl tertiary butyl ether (MTBE) and fuel oxygenates to be eligible for closure.

The DTSC has reviewed the environmental reports conducted prior to 1995 (including a health-based risk assessment and the UST closure data) and issued a no further action letter in 1998 for environmental issues on the entire site. The RWQCB issued a no further action letter for a portion of the site located near the Balboa Pacific Section that is impacted with petroleum hydrocarbons from surface to groundwater. Copies of these documents are provided in Appendix B.

2. OBJECTIVES

The objectives of the subsurface investigation were to assess whether elevated concentrations of petroleum hydrocarbons, MTBE, and/or fuel oxygenates were present in soil in the vicinity of the former USTs, and if not, to obtain closure of the USTs with the SFSFD.

3. PREVIOUS UNDERGROUND STORAGE TANK ACTIVITIES

In 1990, TRC Environmental Consultants, Inc. (TRC) conducted subsurface investigations and removal activities of the 3,000-, 4,000-, 6,000-, and 10,000-gallon USTs that were located in the Lakewood Section of the site (Figure 2). The 1,000- and 20,000-gallon USTs located in the Balboa Pacific Section were reportedly removed, although there was no documentation of confirmation samples or the preparation of a closure report. Ninyo & Moore reviewed the environmental reports prepared by TRC and other documentation regarding the removal of the USTs located in the Balboa Pacific Section. The following presents a summary of our review.

3.1. Closure Report for the USTs in the Lakewood Section

Ninyo & Moore reviewed the TRC report titled Underground Storage Tank Removal at the Walker-Turner Property Bloomfield Avenue and Lakeland Road, Santa Fe Springs, California. The report summarized previous subsurface investigations conducted in the vicinity of these tanks and the removal of the USTs. A copy of the report is presented in Appendix A.

3.1.1. Previous Investigations

In late-1989, TRC conducted a subsurface investigation in the vicinity of the USTs which included advancing soil borings and excavating one test pit (Figures 3 through 5). Three borings were drilled in the vicinity of the 4,000- and 6,000-gallon gasoline USTs to depths of between 20 and 129 feet bgs (Figure 3). The deep boring was used to install groundwater well W-1. A photoionization detector (PID) was used to screen soil samples collected in the field. Because there was no field indication of impacted soil in borings TSB-1 and TSB-2, no soil samples were chemically analyzed from these borings. Possible contamination was indicated by the PID in soil samples collected from approximately 20 to 40 feet in boring TSB-3 (i.e., W-1). Based on these readings, the two soil samples collected at depths of approximately 20 and 35 feet bgs were analyzed for total petroleum hydrocarbons (TPH) and total recoverable petroleum hydrocarbons (TRPH) in general accordance with EPA method Nos. 8015 (modified) and 418.1, respectively. No detectable concentrations of TPH or TRPH were reported (Table 1).

One soil boring (designated TMB-1) was drilled and one test pit (designated T11) was excavated near the 3,000-gallon UST (Figure 4). The contents of the UST was unknown, but was assumed by TRC to be a petroleum product. The soil boring was drilled to a depth of approximately 30 feet bgs and no PID readings were reported. One soil sample collected at approximately 20 feet bgs was analyzed for TPH in general accordance with EPA Method No. 8015 (modified). Laboratory results indicated no detectable concentrations of TPH (Table 1). Test pit T11 was excavated along the western end of the tank and one sample was collected at a depth of approximately 7 feet bgs. The sample was analyzed for total petroleum hydrocarbons as gasoline (TPHg) and

benzene, toluene, ethylbenzene, and xylenes (BTEX). Laboratory results indicated no detectable concentrations of TPHg, benzene, and toluene, and low concentrations of ethylbenzene (0.08 milligrams per kilogram [mg/kg]) and xylenes (0.1 mg/kg).

Two soil borings were drilled at each end of the 10,000-gallon gasoline UST (Figure 5). The soil borings (designated TMB-3 and TSB-6) were drilled to depths of approximately 30 feet bgs. Field observations indicated the presence of petroleum hydrocarbons. Soil samples collected from boring TMB-3 at 10 and 30 feet bgs were analyzed for TPH, and soil samples collected from boring TSB-6 at 10 and 30 feet bgs were analyzed for TPHg and BTEX. Laboratory results of the soil samples collected from TMB-3 indicated 2,200 mg/kg and 3.3 mg/kg of TPH in the 10- and 30-foot sample, respectively (Table 1). Laboratory results of the 10-foot sample collected from boring TSB-6 indicated 1,800 mg/kg of TPHg, and 0.14 mg/kg of benzene, 4.4 mg/kg of toluene, 22 mg/kg of ethylbenzene, and 120 mg/kg of xylenes (Table 1).

3.1.2. Underground Storage Tank Removal Activities

In January 1990, Turner Development Corporation (previous owner of the site) retained TRC to remove the 3,000-, 4,000-, 6,000-, and 10,000-gallon USTs located on the Lakewood Section. The USTs were removed under the direction of the LADPW, SFSFD, and a Registered Geologist from TRC. Closure permits were obtained through the LADPW and copies are included in Appendix C of the TRC report. Prior to removal, the tanks were emptied of their contents and triple rinsed. Copies of the non-hazardous manifests for the contents and rinsate materials are presented in Appendix D of the TRC report. A copy of the certification of tank disposal is also included in Appendix D of the TRC report.

Following removal of the USTs, no obvious holes were observed and no PID readings were reported for the excavated soil (TRC, 1990). Two confirmation samples were collected within each of the excavations under the direction of the LADPW. The samples were analyzed for TPH, TPHg, and/or BTEX. Laboratory results indicated no detectable

concentrations of petroleum hydrocarbons or BTEX from samples collected beneath the former 3,000-, 4,000-, and 6,000-gallon USTs (Table 1). No detectable concentrations of TPHg and BTEX were also reported in the sample collected from the western side of the 10,000-gallon UST excavation. The sample collected on the eastern side of the excavation indicated low concentrations of TPHg (24 mg/kg), benzene (0.38 mg/kg), toluene (0.55 mg/kg), ethylbenzene (0.77 mg/kg), and xylenes (3.2 mg/kg). The stockpiled soil was used as backfill for each excavation.

Based on the results of the UST removal activities, TRC requested closure for the USTs with the understanding that the impacted soil associated with the former 10,000-gallon UST be excavated and bioremediated on site under the direction of the DTSC. No closure report was issued.

3.2. Documentation of Removal for the USTs Located in the Balboa Pacific Section

The only documentation available for review in agency files for the 1,000- and 20,000-gallon USTs formerly located on the Balboa Pacific Section was a receipt dated February 13, 1990 from a contractor (Mayfield Enterprises, Inc.) indicating that the USTs had been removed. According to the receipt, the USTs were unused and were not permitted. The USTs were removed and the excavations backfilled. There was no indication that confirmation samples were collected following removal of the USTs. A copy of the receipt is presented in Appendix A.

4. WORK PLAN AND PERMIT APLICATION

On March 5, 2002, Ninyo & Moore submitted a Work Plan and obtained UST closure permits with the SFSFD. Because time was of the essence, Ms. Brenda Nelson of the SFSFD reviewed and approved the Work Plan on March 5. As part of the closure application, the SFSFD required that a building permit be obtained through the Santa Fe Springs Building Department (SFSBD). According to Mr. John Riddle of the SFSBD, building permits are required if permits were previously issued for the installation of the USTs. During the Phase I ESA, Ninyo & Moore

reviewed the SFSBD files and did not observe previous building permits issued for the subject USTs. Based on this information, Mr. Riddle indicated that no permits were necessary. A copy of the approved Work Plan, UST Closure Permit Application, and letter from the SFSBD are provided in Appendix C.

Following review of the Work Plan, Ms. Nelson slightly modified the analytical plan to include analyzing the complete range of volatile organic compounds (VOCs, by EPA Method No. 8260B) for samples collected from borings drilled in the area of the 3,000-gallon UST. The complete range of VOCs include MTBE and fuel oxygenates. The reason for this modification was that the contents of the UST were unknown, although it was assumed by TRC that the contents were some type of petroleum product. Another modification included analyzing one sample for TPHg (EPA Method No. 8015 [modified]) from both soil borings drilled in the vicinity of the 10,000-gallon UST. The reason for this modification was due to the concentrations of gasoline detected during previous investigations. The sample to be tested would be collected from depths of between 10 and 20 feet bgs which indicated the most elevated PID readings.

In addition, the samples collected from the soil borings drilled in the vicinity of the 1,000- and 20,000-gallon USTs would be analyzed for the complete range of VOCs. The reason for this modification was to assess whether BTEX may be present associated with the possible storage of gasoline in the 20,000-gallon UST, and whether chlorinated solvents and/or gasoline may have been disposed of in the 1,000-gallon waste oil UST.

5. SUBSURFACE INVESTIGATION

Prior to commencement of field activities, a Health and Safety Plan was prepared. On March 6 and 7, 2002, the subsurface investigation was conducted and included advancing one soil boring at each end of the USTs. The soil borings were drilled by Coreprobe International, a C-57 licensed drilling company, using hydraulic push equipment. One soil boring was drilled to a depth of approximately 20 feet and the other boring was drilled to a depth of approximately 40 feet bgs. Soil samples were collected at approximately 5-foot depth intervals beginning at approximately 5 feet bgs and continuing to the bottom of the boring. Soil samples were screened in

the field using a PID. In general, soil lithology consisted of silty fine sand and fine sand. No petroleum stained or odorous soil was encountered. PID readings ranged from no detectable concentrations to approximately 0.4 parts per million [ppm]. Refusal (i.e., hard drilling environment) was encountered in borings NM1A, NM3A, and NM4A. These borings were drilled to total depths of approximately 35, 30, and 35 feet bgs, respectively. Samples to be analyzed for VOCs and TPHg were collected using EPA Method No. 5035.

Boring logs showing PID readings and soil lithology are presented in Appendix D, and field procedures are presented in Appendix E. Soil sampling was supervised and directed by Mr. Paul Roberts of Ninyo & Moore, a State Registered Geologist.

5.1. Location of Soil Borings

Scaled maps from previous investigations conducted at the site were utilized to locate the former location of the USTs. Ninyo & Moore used fire hydrants as reference points along Bloomfield Avenue to measure the locations of the USTs (Figures 3 through 6). Soil borings were placed at each end of the USTs.

5.2. Chemical Analyses

Soil samples were chemically analyzed by Advanced Technology Inc., a State-certified environmental laboratory. Selected soil samples collected from the soil borings drilled near the 3,000-, 4,000-, 6,000-, and 10,000-gallon USTs that were previously investigated were analyzed for MTBE and fuel oxygenates in general accordance with EPA Method No. 8260B. As modified by the SFSFD, the samples collected from the soil borings drilled near the 3,000-gallon UST were also analyzed for the complete VOC suite analyzed by EPA Method No. 8260B (including chlorinated solvents, BTEX, MTBE, and fuel oxygenates). Samples collected from depths of 10 and 15 in soil borings NM4A and NM4B, respectively, were also analyzed for TPHg. These soil samples indicated the most elevated PID readings of 0.2 ppm within the depth interval outlined by the SFSFD of 10 to 20 feet bgs. These borings were drilled in the vicinity of the 10,000-gallon UST.

The soil samples collected from borings drilled in the vicinity of the 1,000-gallon waste oil UST and the 20,000-gallon fuel UST (diesel fuel or gasoline) which were not previously sampled, were analyzed for the complete VOC suite as analyzed using EPA Method No. 8260B, including MTBE and fuel oxygenates. These samples were also analyzed for extended range total petroleum hydrocarbons C_{10}-C_{32} (TPHe) in general accordance with EPA Method No. 8015 (modified). Two samples collected at approximately 10 feet bgs from the soil borings drilled in the vicinity of the former 1,000-gallon waste oil UST, were also analyzed for Title 22 metals in general accordance with EPA method Nos. 6010/7000 series.

5.3. Laboratory Results

As presented on Table 2, no detectable concentrations of MTBE or fuel oxygenates were reported in the samples analyzed. A very low concentration of bromomethane was detected in the sample collected at a depth of approximately 5-feet bgs (within the backfill material) in the location of the former 3,000-gallon UST. A low concentration of benzene (6.3 micrograms per kilogram [μg/kg]) was detected in the sample collected from 10 feet bgs within the former 1,000-gallon waste oil UST excavation. Laboratory results of the sample collected beneath the 10-foot sample indicated no detectable concentrations of benzene to 40 feet bgs.

No detectable to low concentrations (from 16 to 405 mg/kg) of heavy petroleum hydrocarbons in the carbon range of C_{16}-$C_{>32}$ were reported in the samples collected in the area of the former 1,000-gallon UST and 20,000-gallon UST. Low concentrations of Title 22 metals were also reported in the samples collected beneath the former location of the 1,000-gallon waste oil UST. No detectable concentrations of TPHg were reported in the samples collected in the vicinity of the former 10,000-gallon UST. Laboratory reports are presented in Appendix F.

5.4. Uploading Data

Laboratory data has been received by Ninyo & Moore in EDF format for uploading to the RWQCB GeoTracker website. Ninyo & Moore has been authorized by Cenco to represent

the responsible party and is in the process of uploading the laboratory data and scaled plot plans of the boring locations.

6. DISCUSSION AND CONCLUSIONS

Ninyo & Moore conducted a subsurface investigation in the vicinity of the six USTs. One soil boring was drilled at each end of the USTs to depths of approximately 20 and 40 feet bgs. Selected soil samples were chemically analyzed. Soil samples previously collected by others and during this investigation in the vicinity of the 3,000-, 4,000-, and 6,000-gallon USTs were analyzed for TPH, TRPH, TPHg, BTEX, VOCs, and/or MTBE and fuel oxygenates. Except for low concentrations of bromomethane (5.5 µg/kg) detected in a 5-foot sample and ethylbenzene (0.08 mg/kg) and xylenes (0.1 mg/kg) detected in a 7-foot sample collected in the vicinity of the 3,000-gallon UST, no detectable concentrations of TPH, TRPH, TPHg, VOCs, MTBE, or fuel oxygenates were reported.

Laboratory results of previous investigations conducted adjacent to the 10,000-gallon gasoline UST indicated concentrations of TPH of 2,200 mg/kg and TPHg of 1,800 mg/kg in the 10-foot samples collected from two soil borings. One of these samples also indicated concentrations of BTEX. Laboratory results of deeper samples indicated no detectable to low concentrations (3.3 mg/kg) of petroleum hydrocarbons, and no detectable concentrations of BTEX. During removal of the UST, confirmation samples indicated no detectable to low concentrations of TPHg and BTEX. Laboratory results of soil samples collected during this investigation indicated no detectable concentrations of TPHg, MTBE, and fuel oxygenates.

Laboratory results of soil samples collected from soil borings drilled within the former excavation of the 1,000-gallon waste oil UST and 20,000-gallon fuel UST indicated no detectable to low concentrations (up to 405 mg/kg) of TPHe with a carbon range of C_{16}-$C_{>32}$. One sample collected in the vicinity of the 1,000-gallon UST indicated low concentrations of benzene (6.3 µg/kg). The remaining samples collected to depths of approximately 40 feet bgs indicated no detectable concentrations of VOCs including benzene, MTBE, and fuel oxygenates. Labora-

tory results of two soil samples collected near the 1,000-gallon UST indicated low concentrations of Title 22 metals.

There are no current regulatory clean-up standards for petroleum hydrocarbons in soil. The RWQCB typically sets clean-up goals on a case-by-case basis. The RWQCB issued an Interim Site Assessment & Cleanup Guidebook dated May 1996 as a guideline for petroleum hydrocarbon impacted soil. Based on this document, depth to groundwater, and soil sedimentology, the clean-up standard for heavy petroleum hydrocarbons (C_{16}-C_{32}) would range from approximately 1,000 to 10,000 mg/kg. Based on this information, heavy petroleum hydrocarbons detected near the 1,000- and 20,000-gallon USTs during this investigation do not exceed these levels and would need no further action. Based on the guidebook, the concentrations of benzene detected in one sample collected near the 1,000-gallon UST would be considered low and would need no further investigations.

According to the RWQCB guidebook, concentrations of gasoline range hydrocarbons (C_4-C_{12}) would be considered elevated at concentrations exceeding approximately 500 mg/kg. Benzene is considered elevated at concentrations of 0.033 mg/kg, toluene at 2 mg/kg, ethylbenzene at 7 mg/kg, and xylenes at 20 mg/kg. Based on these standards, concentrations of TPHg and BTEX detected in one previous sample collected over 12 years ago near the 10,000-gallon UST would be considered elevated. During the investigation conducted by Ninyo & Moore, one soil boring was advanced approximately 12 feet from the previous boring and laboratory results indicated no detectable concentrations of TPHg. Based on this information, it appears that the constituents detected previously may have since biodegraded and/or are very limited in area (both vertically and laterally). Preliminary Remediation Goals (PRGs) are risk-based standards set by the EPA for evaluating and cleaning up contaminated sites. The concentrations of BTEX previously detected do not exceed the residential or industrial PRGs. Based on this information, depth to groundwater, on-going groundwater monitoring by others, and proposed future land use, it is our judgment that the concentrations of TPHg and BTEX are low and would not constitute an environmental or health threat.

Bomomethane was detected in one sample collected from the backfill material associated with the 3,000-gallon UST. Bromomethane is a manufactured chemical and also occurs naturally in the environment. Bromomethane is not considered a carcinogen. The concentration of bromomethane is well below the residential and industrial PRGs, and therefore, would not be considered an environmental or health concern.

With the exception of arsenic, the metal concentrations detected in the two samples collected in the vicinity of the 1,000-gallon UST are below the residential and industrial PRGs. Arsenic is a naturally occurring metal and sometimes exceeds the PRGs in California soils. Based on a publication titled Kearney Foundation of Soil Science (Kearney), background concentrations of arsenic in California ranges from approximately 0.59 to 11 mg/kg. Other publications are available documenting metal concentrations in soil throughout the western United States which indicate concentrations of naturally occurring arsenic ranging from less than 0.1 to 40 mg/kg (Dragun, 1988) and less than 0.1 to 97 mg/kg (Shacklette & Boerngen, 1984). Based on this published information, the concentrations of arsenic reported at the site would be considered background concentrations and would not be an environmental or health concern.

7. RECOMMENDATION

Based on the information obtained during this investigation, current regulatory guidelines, and our professional judgment, Ninyo & Moore has the following recommendation:

- The concentrations of petroleum hydrocarbon constituents detected during previous and current investigations would not pose an environmental or health risk. Based on this information, Ninyo & Moore recommends that the SFSFD issue a closure letter for the six subject USTs.

8. LIMITATIONS

The services outlined in this report have been conducted in a manner generally consistent with current regulatory guidelines. No warranty, expressed or implied, is made regarding the professional opinions presented in this report. Ninyo & Moore's opinions are based on an analysis of

observed conditions and on information obtained from third parties. It is likely that variations in soil conditions may exist which were beyond the scope of work for the UST closure activities.

The samples collected and chemically analyzed and the observations made are believed to be representative of the general area evaluated; however, conditions can vary significantly between sampling locations. The interpretations and opinions contained in this report are based on the results of laboratory tests and analyses intended to detect the presence and measure the concentration of certain chemical or physical constituents in samples collected from the site. The analyses have been conducted by an independent laboratory which is accredited by the United States EPA and/or certified by the State of California to conduct such analyses. Ninyo & Moore has no involvement in, or control over, such analyses and has no means of confirming the accuracy of laboratory results. Ninyo & Moore, therefore, disclaims any responsibility for inaccuracy in such laboratory results.

This document is intended to be used only in its entirety. No portion of the document, by itself, is designed to completely represent any aspect of the project described herein. Ninyo & Moore should be contacted if the reader requires any additional information, or has questions regarding content, interpretations presented, or completeness of this document. Opinions and judgments expressed herein, which are based on our understanding and interpretation of current regulatory standards, should not be construed as legal opinions.

9. REFERENCES

Christman, 2002, Cenco Electric Company, Manager of Environmental Engineering: Oral communication, dated source.

Dragun, J., 1988, The Soil Chemistry of Hazardous Materials, Hazardous Materials Control Research Institute, Silver Spring, Maryland.

TRC Environmental Consultants, Inc. (TRC), 1990, Underground Storage Tank Removal at Walker-Turner Property Bloomfield Avenue and Lakeland Road, Santa Fe Springs, California, dated April 6.

Kearney Foundation of Soil Science, Division of Agriculture and Natural Resources, University of California, 1996, Background Concentrations of Trace and major Elements in California Soils, dated March.

Shacklette, H.T. and Boerngen, J.G., 1984, Element Concentrations in Soils and Other Surficial Materials of the Conterminous United States, United States Geological Society Professional Paper 1270.

TABLE 1 - SUMMARY OF PREVIOUS SOIL SAMPLE LABORATORY RESULTS

Location	Capacity (gallons)	Former Contents	Tank Depth (feet bgs)	Samples Collected Beneath Tank/ Depth	Samples Collected from Boring/ Depth	TRPH (mg/kg)	TPH (mg/kg)	TPHg (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Xylenes (mg/kg)
Lakewood Section	3,000	Unknown/ Petroleum Products	10		TMB-1/20	---	ND	---	---	---	---	---
					T11/7	---	---	ND	ND	ND	0.08	0.1
				UST-3-A/10-12		---	---	ND	ND	ND	ND	ND
				UST-3-B/10-12		---	---	ND	ND	ND	ND	ND
Lakewood Section	4,000	Gasoline	10		TSB-3/20	ND	---	---	---	---	---	---
					TSB-3/35	---	ND	---	---	---	---	---
				UST-1-A/10-12		---	ND	---	ND	ND	ND	ND
				UST-1-B/10-12		---	ND	---	ND	ND	ND	ND
Lakewood Section	6,000	Gasoline	12		TSB-3/20	ND	---	---	---	---	---	---
					TSB-3/35	---	ND	---	---	---	---	---
				UST-2-A/12-14		---	ND	ND	ND	ND	ND	ND
				UST-2-B/12-14		---	ND	ND	ND	ND	ND	ND
Lakewood Section	10,000	Gasoline	12		TMB-3/10	---	2,200	---	---	---	---	---
					TMB-3/30	---	3.3	---	---	---	---	---
					TSB-6/10	---	---	1,800	0.14	4.4	22	120
					TSB-6/30	---	---	ND	ND	ND	ND	ND
				UST-4-A/12-14		---	---	ND	ND	ND	ND	ND
				UST-4-B/12-14		---	---	24	0.38	0.55	0.77	3.2
Balboa Pacific Section	1,000	Waste Oil	8	Not Collected	Not Collected	---	---	---	---	---	---	---

TABLE 1 - SUMMARY OF PREVIOUS SOIL SAMPLE LABORATORY RESULTS

Location	Capacity (gallons)	Former Contents	Tank Depth (feet bgs)	Samples Collected Beneath Tank/ Depth	Samples Collected from Boring/ Depth	TRPH (mg/kg)	TPH (mg/kg)	TPHg (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Xylenes (mg/kg)
Balboa Pacific Section	20,000	Gasoline or Diesel Fuel	14	Not Collected	Not Collected	---	---	---	---	---	---	---

Notes:
feet bgs – feet below the ground surface.
UST – underground storage tank.
Tank Depth – This is an assumed depth. Typically the top of the UST is placed approximately 4 feet bgs. The total depth to the bottom of the UST is assuming the diameter of a 1,000-gallon UST is 4 feet; 3,000- and 4,000-gallon USTs are 6 feet; 6,000- and 10,000-gallon USTs are 8 feet; and a 20,000-gallon UST is 10 feet.
Sample Collected Beneath Tank/Depth – Depth of samples collected beneath the USTs are an assumed range, based on the Tank Depth stated above. Depth is in feet bgs.
Sample Collected From Boring/Depth – Depth is in feet bgs. T11 is a test pit.
TRPH – Total recoverable petroleum hydrocarbons analyzed in general accordance with EPA Method No. 418.1.
TPH – Total petroleum hydrocarbons analyzed in general accordance with EPA Method No. 8015 (modified).
TPHg – Total petroleum hydrocarbons as gasoline analyzed in general accordance with EPA Method No. 8015 (modified).
Benzene, toluene, ethylbenzene, and xylenes were analyzed in general accordance with EPA Method No. 8020.
mg/kg – milligram per kilogram.
--- – not analyzed
ND – no detectable concentration above the laboratory detection limit

TABLE 2 - SUMMARY OF SOIL SAMPLE LABORATORY RESULTS BY NINYO & MOORE

Location	Capacity (gallons)	Former Contents	Tank Depth (feet bgs)	Boring ID	Sample Depth (feet bgs)	VOCs, including MTBE and Fuel Oxygenates (µg/kg)	MTBE and Fuel Oxygenates (µg/kg)	TPHe (mg/kg)	TPHg (mg/kg)	Title 22 Metals
Lakewood Section	3,000	Unknown/ Petroleum Products	10	NM1A	5	5.5 - Bromomethane	---	---	---	---
					10	ND	---	---	---	---
					20	ND	---	---	---	---
					30	ND	---	---	---	---
					35	ND	---	---	---	---
				NM1B	5	ND	---	---	---	---
					10	ND	---	---	---	---
					20	ND	---	---	---	---
Lakewood Section	4,000	Gasoline	10	NM2A	5	---	ND	---	---	---
					10	---	ND	---	---	---
					20	---	ND	---	---	---
					30	---	ND	---	---	---
					40	---	ND	---	---	---
				NM2B	5	---	ND	---	---	---
					10	---	ND	---	---	---
					20	---	ND	---	---	---
Lakewood Section	6,000	Gasoline	12	NM3A	5	---	ND	---	---	---
					10	---	ND	---	---	---
					20	---	ND	---	---	---
					30	---	ND	---	---	---
				NM3B	5	---	ND	---	---	---
					10	---	ND	---	---	---
					20	---	ND	---	---	---
Lakewood Section	10,000	Gasoline	12	NM4A	5	---	ND	---	---	---
					10	---	ND	---	ND	---
					20	---	ND	---	---	---
					30	---	ND	---	---	---
					35	---	ND	---	---	---
				NM4B	5	---	ND	---	---	---
					10	---	ND	---	---	---
					15	---	---	---	ND	---
					20	---	ND	---	---	---

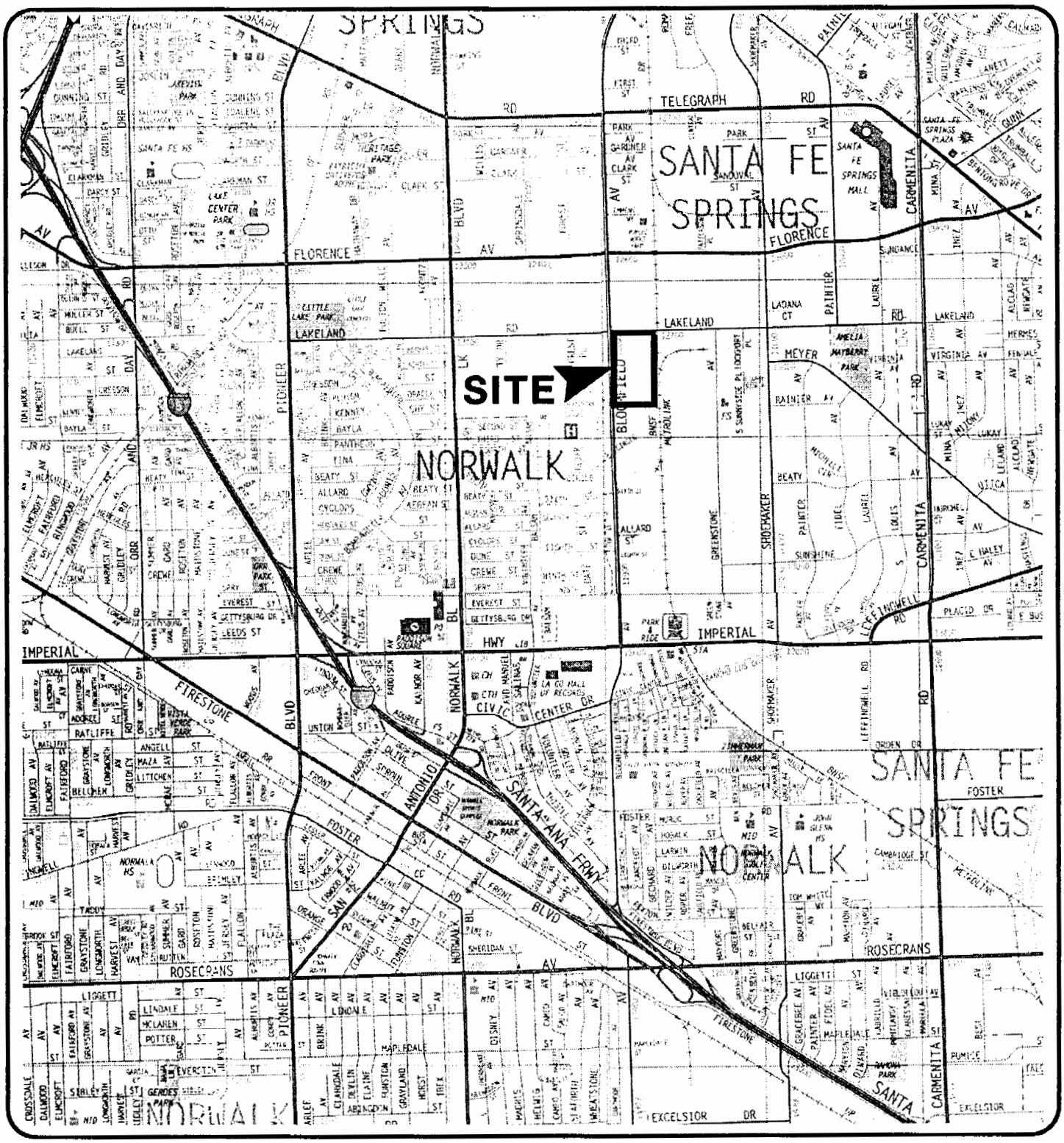
TABLE 2 - SUMMARY OF SOIL SAMPLE LABORATORY RESULTS BY NINYO & MOORE

Location	Capacity (gallons)	Former Contents	Tank Depth (feet bgs)	Boring ID	Sample Depth (feet bgs)	VOCs, including MTBE and Fuel Oxygenates (µg/kg)	MTBE and Fuel Oxygenates (µg/kg)	TPHe (mg/kg)	TPHg (mg/kg)	Title 22 Metals
Balboa Pacific Section	1,000	Waste Oil	8	NM5A	5	ND	---	ND	---	---
					10	6.3 - Benzene	---	ND	---	0.50 - Antimony 10 - Arsenic 96 - Barium 16 - Cobalt 25 - Copper 4 - Lead 0.50 - Molybdenum 16 - Nickel 0.50 - Thallium 35 - Vanadium 46 - Zinc
					20	ND	---	ND	---	---
					30	ND	---	ND	---	---
					40	ND	---	ND	---	---
				NM5B	5	ND	---	ND	---	---
					10	ND	---	ND	---	1.0 - Antimony 15 - Arsenic 130 - Barium 26 - Chromium 12 - Cobalt 36 - Copper 4.5 - Lead 0.33 - Molybdenum 21 - Nickel 0.50 - Thallium 44 - Vandium 65 - Zinc
					20	ND	---	16 - C_{23}-C_{32}	---	---

TABLE 2 - SUMMARY OF SOIL SAMPLE LABORATORY RESULTS BY NINYO & MOORE

Location	Capacity (gallons)	Former Contents	Tank Depth (feet bgs)	Boring ID	Sample Depth (feet bgs)	VOCs, including MTBE and Fuel Oxygenates (µg/kg)	MTBE and Fuel Oxygenates (µg/kg)	TPHe (mg/kg)	TPHg (mg/kg)	Title 22 Metals
Balboa Pacific Section	20,000	Gasoline or Diesel Fuel	14	NM6A	5	ND	---	405 - C_{16}-$C_{>32}$	---	---
					10	ND	---	36 - C_{23}->C_{32}	---	---
					20	ND	---	36 - C_{23}->C_{32}	---	---
					30	ND	---	ND	---	---
					40	ND	---	29 - C_{23}->C_{32}	---	---
				NM6B	5	ND	---	47 - C_{23}->C_{32}	---	---
					10	ND	---	28 - C_{23}->C_{32}	---	---
					20	ND	---	ND	---	---

Notes:
feet bgs – feet below the ground surface.
UST – underground storage tank.
Tank Depth – This is an assumed depth. Typically the top of the UST is placed approximately 4 feet bgs. The total depth to the bottom of the UST is assuming the diameter of a 1,000-gallon UST is 4 feet; 3,000- and 4,000-gallon USTs are 6 feet; 6,000- and 10,000-gallon USTs are 8 feet; and a 20,000-gallon UST is 10 feet.
MTBE and Fuel Oxygenates – Methyl tertiary butyl ether and fuel oxygenates to be analyzed in general accordance with EPA Method No. 8260B.
VOCs, including MTBE and Fuel Oxygenates analyzed in general accordance with EPA Method No. 8260B.
TPHe – Extended range total petroleum hydrocarbons C_{10}-C_{32} to be analyzed in general accordance with EPA Method No. 8015 (modified).
TPHg – Total petroleum hydrocarbons as gasoline analyzed in general accordance with EPA Method No. 8015 (modified).
Title 22 Metals to be analyzed in general accordance with EPA Method Nos. 6010/7000 series.
mg/kg – milligram per kilogram.
ug/kg - mocrograms per kilogram
--- – not analyzed
ND – no detectable concentration above the laboratory detection limit



REFERENCE: 2000 Thomas Guide for Los Angeles and Orange Counties, Street Guide and Directory.

NORTH

0 2400 4800

Approximate Scale in Feet

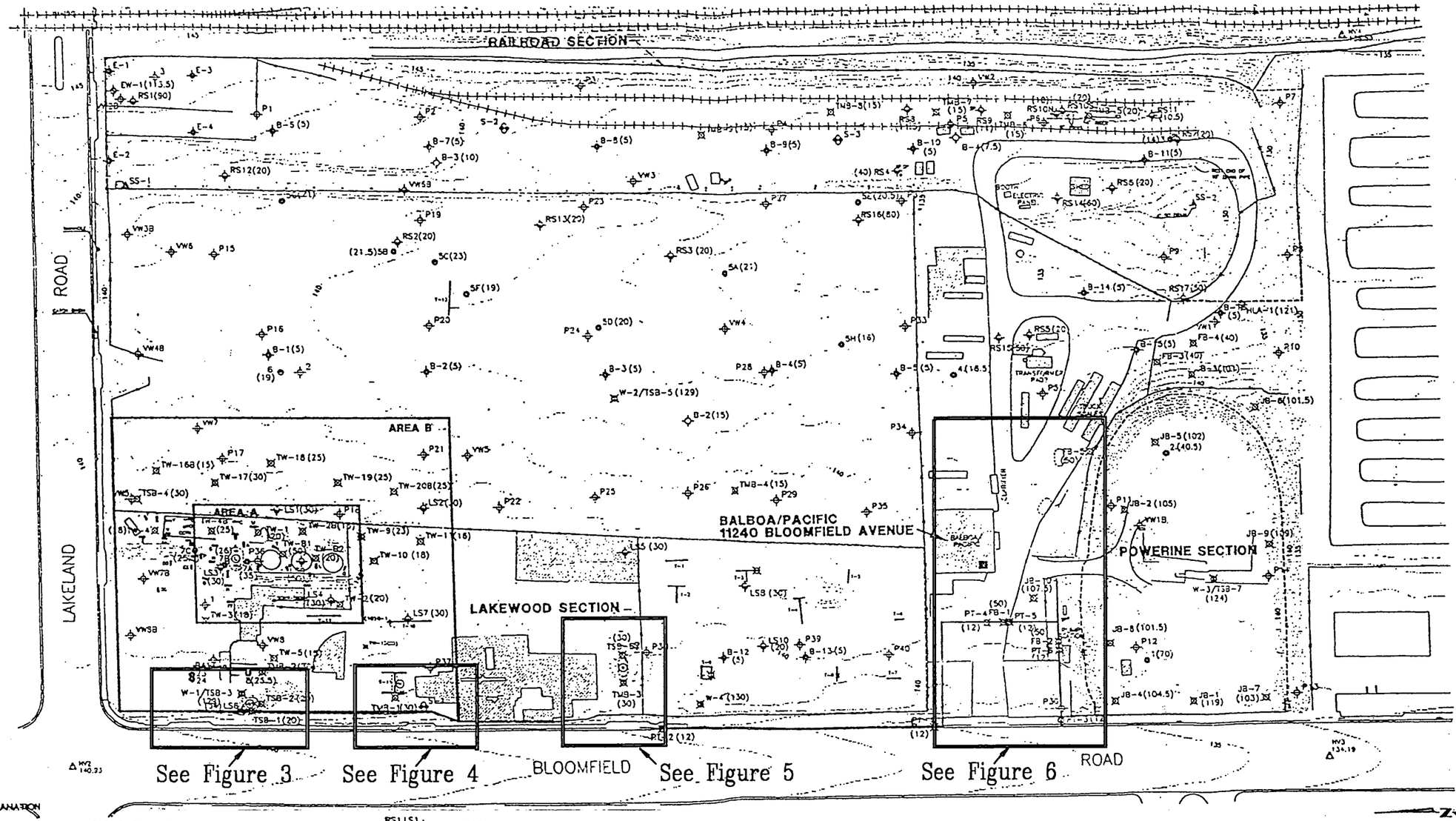
Ninyo & Moore

SITE LOCATION MAP

WALKER PROPERTY

SANTA FE SPRINGS, CALIFORNIA

PROJECT NO.	DATE	FIGURE
203571003	3/2002	1



EXPLANATION

- B — DAMES AND MOORE SOIL BORING (23 and 24 are surface samples)
- B-1,E-1 — ENCON SOIL BORING
- 2,P34,VW3 — GEOSCIENCE ANALYTICAL (# – borehole, P – probe, and VW – vapor monitoring well)
- FB-1,JB-5,PT-3 TSB-2,TW8-2,TW-3 — TRC SOIL BORING
- B-2 — APPLIED GEOTECHNICAL ENGINEERING, INC. SOIL BORING
- EW-1 — ENCON WELL
- W-4 — TRC WELL
- J — 33 SHALLOW TRENCHES BY DAMES AND MOORE WITH SAMPLE LOCATION
- T-3 — 13 SHALLOW TRENCHES BY TRC WITH SAMPLE LOCATION
- (50) — TOTAL DEPTH OF BORING
- RS1,LS1 — HLA BORING
- HLA-1 — HLA MONITORING WELL
- SS-1 — HLA SURFACE SEDIMENT SAMPLE
- HLA METEOROLOGICAL STATION
- S-3 — HLA AIR SAMPLING LOCATION
- LOCATION OF FORMER UNDERGROUND STORAGE TANK
- LAKEWOOD OIL SERVICE
- MOHAWK SALES, INC.
- NORWALK DISPOSAL
- CONCRETE PAD

NOTE:
LOCATIONS OF PREVIOUS TENANTS ARE APPROXIMATE.
LEASEHOLD BOUNDARIES UNKNOWN.

Scale 0 60 120 feet

Source: Harding Lawson Associates, Areas with Elevated Levels of Polychlorinated Biphenyls, 1995.

NOTE: ALL DIMENSIONS AND DIRECTIONS ARE APPROXIMATE.

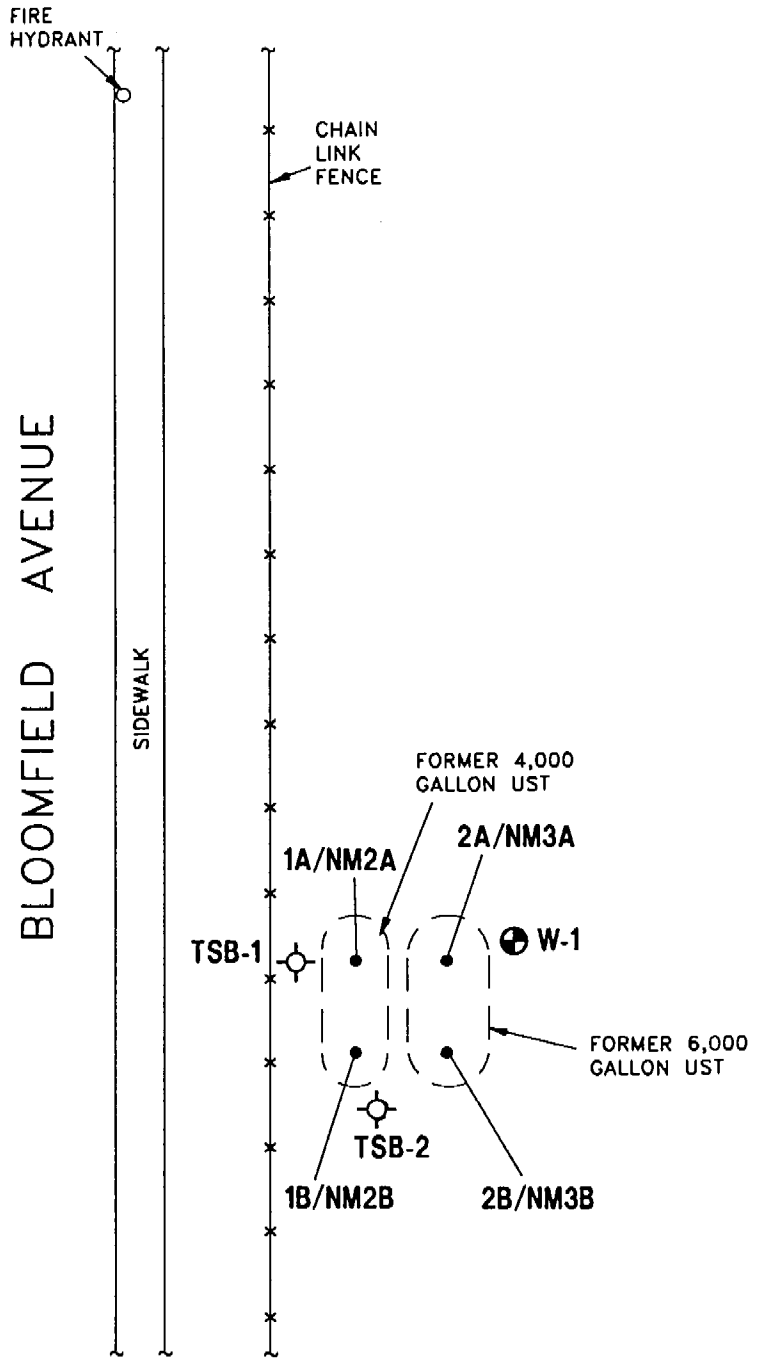
Ninyo & Moore

SITE PLAN

WALKER PROPERTY
SANTA FE SPRINGS, CALIFORNIA

PROJECT NO.	DATE	FIGURE
203571003	3/2002	2

3571 p3 F2



LEGEND

UST	Underground storage tank
1A	Location and designation of soil sample collected beneath former UST by TRC Environmental Consultants, Inc. (TRC)
TSB-1	Location and designation of former soil boring drilled by TRC
W-1	Location and designation of existing groundwater monitoring well installed by TRC
NM3B	Location and designation of soil boring drilled by Ninyo & Moore

N

0 20 40

Approximate Scale in Feet

NOTE: ALL DIMENSIONS AND DIRECTIONS ARE APPROXIMATE.

3571 p3 F-3456

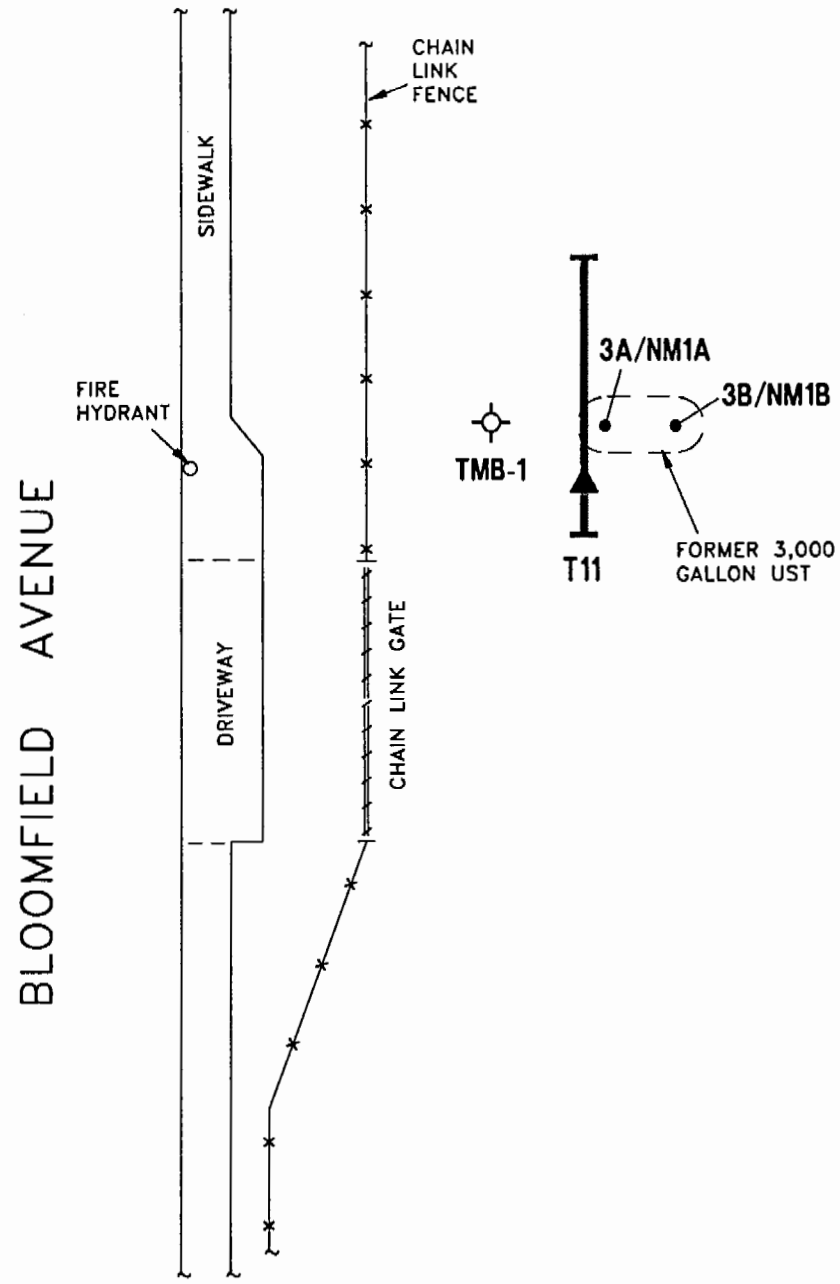
Ninyo & Moore

FORMER 4,000- AND 6,000-GALLON UNDERGROUND STORAGE TANKS

WALKER PROPERTY

SANTA FE SPRINGS, CALIFORNIA

PROJECT NO.	DATE	FIGURE
203571003	3/2002	3



LEGEND

UST	Underground storage tank
3A	Location and designation of soil sample collected beneath former UST by TRC Environmental Consultants, Inc. (TRC)
TMB-1	Location and designation of former soil boring drilled by TRC
NM1B	Location and designation of soil boring drilled by Ninyo & Moore
T11	Test pit and grab sample location and designation by TRC

N

0 20 40

Approximate Scale in Feet

NOTE: ALL DIMENSIONS AND DIRECTIONS ARE APPROXIMATE.

3571 p3 f-3456

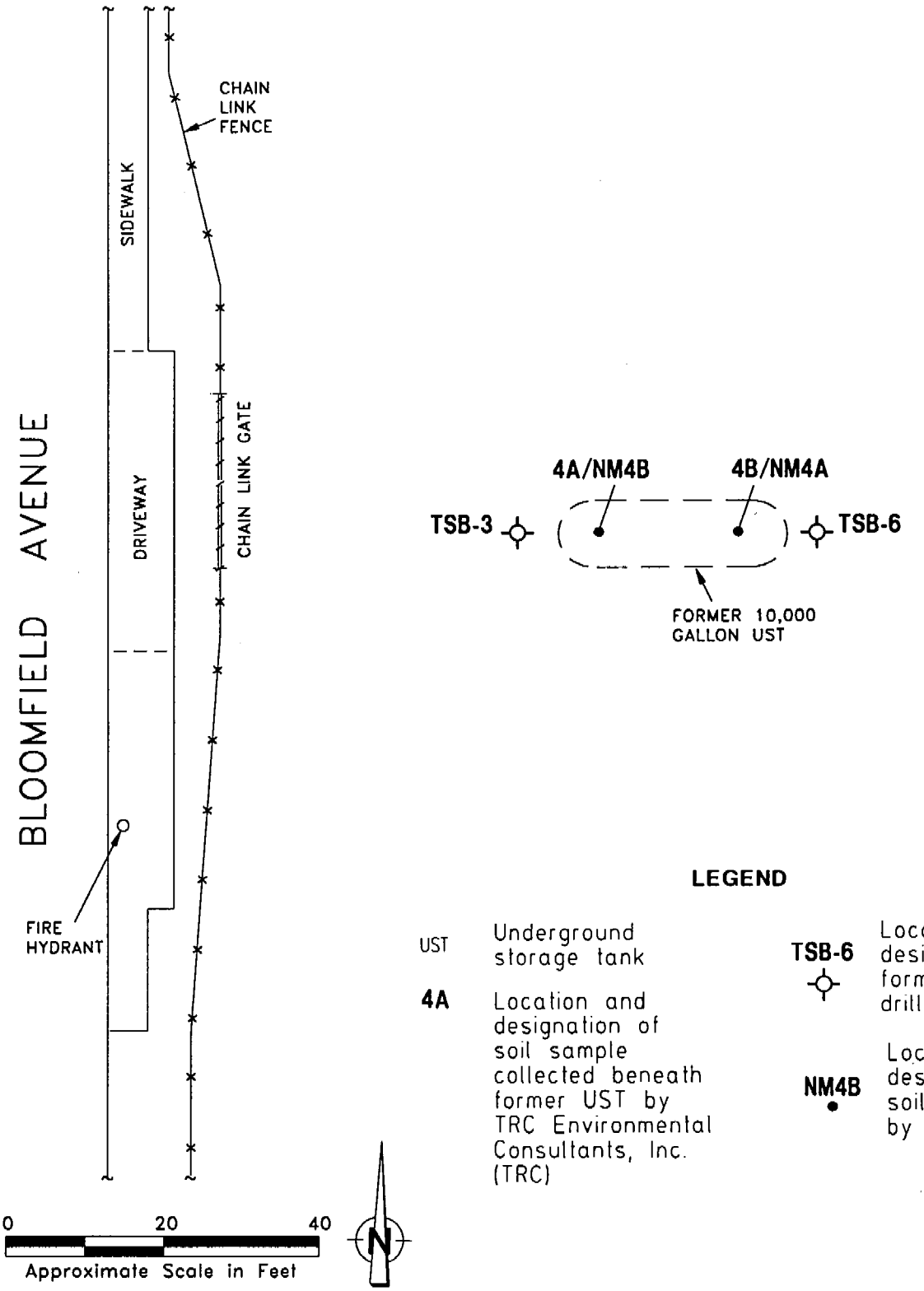
Ninyo & Moore

FORMER 3,000-GALLON UNDERGROUND STORAGE TANK

WALKER PROPERTY

SANTA FE SPRINGS, CALIFORNIA

PROJECT NO.	DATE	FIGURE
203571003	3/2002	4



LEGEND

UST	Underground storage tank
4A	Location and designation of soil sample collected beneath former UST by TRC Environmental Consultants, Inc. (TRC)
TSB-6 ⊕	Location and designation of former soil boring drilled by TRC
NM4B ●	Location and designation of soil boring drilled by Ninyo & Moore

NOTE: ALL DIMENSIONS AND DIRECTIONS ARE APPROXIMATE.

3571 p3 f-3456

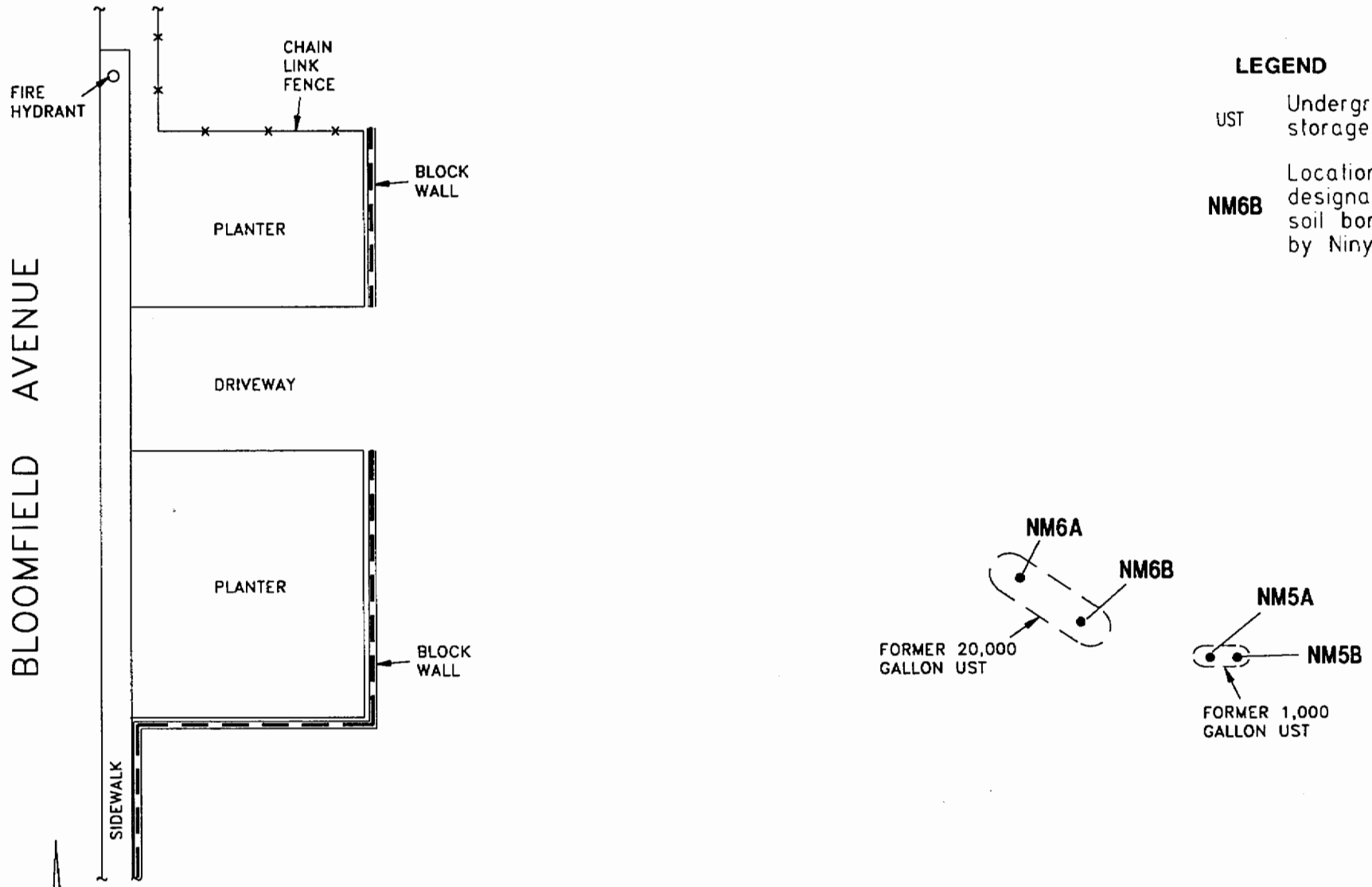
Ninyo & Moore

FORMER 10,000-GALLON UNDERGROUND STORAGE TANK

WALKER PROPERTY

SANTA FE SPRINGS, CALIFORNIA

PROJECT NO.	DATE	FIGURE
203571003	3/2002	5



NOTE: ALL DIMENSIONS AND LOCATION ARE APPROXIMATE.

Ninyo & Moore

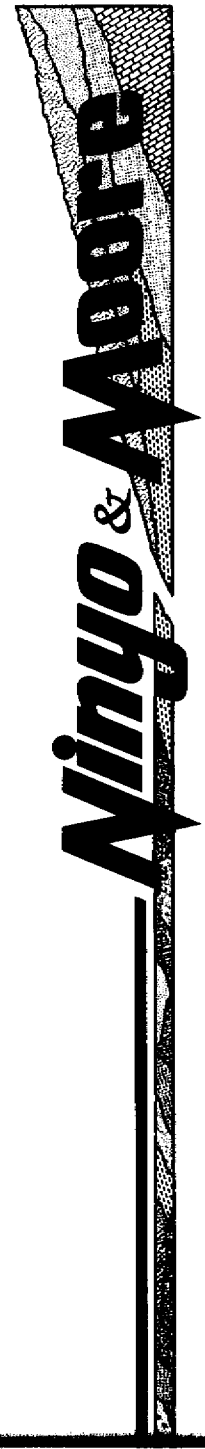
FORMER 1,000- AND 20,000-GALLON UNDERGROUND STORAGE TANKS

WALKER PROPERTY

SANTA FE SPRINGS, CALIFORNIA

PROJECT NO.	DATE	FIGURE
203571003	3/2002	6

APPENDIX A



APPENDIX A

PREVIOUS UNDERGROUND STORAGE TANK CLOSURE REPORT AND CONTRACTOR RECEIPT

INVOICE

MAYFIELD ENTERPRISES, INC.
2521 E. OCEAN BOULEVARD, LONG BEACH, CALIFORNIA 90803
(213) 434-2115

INVOICE NO. 0606
CUSTOMER NO.

BILL TO: TURNER DEVELOPMENT CORP.
1200 Quail St., Suite 160
Newport Beach, CA 92660

Attn: Susan Drummy

SHIP TO:

DATE	TERMS
2/13/90	Net 30 days

PURCHASE ORDER NUMBER	ORDER DATE	JOB LOCATION
		Walker Property - Santa Fe Springs

DATE	DESCRIPTION		
2/1 & 2/2	Removal of one 20,000 and one 1,000 gal. non-permitted non-hazardous unused underground storage tank at old Airco site, Santa Fe Springs; load on flatbed trucks and haul away; backfill holes; fence off and certify tanks.		
	Crane incl.moves/	20 hrs @ 165.00	$ 3,300.00
	Trucking		970.50
	Labor		800.00
	Temporary fencing		N/C
	Backhoe	6 hrs @ 81.00	486.00
	Certification		250.00
			$ 5,806.50
	Operating expense		870.98
			$ 6,677.48

DATE RECD 2-15-90
ENTITY SPS
ACCT. NO
CO #
DRAW #
AMT. 6677.48
APPROVED BY SD
RECORDED BY
DATE PAID
CK. NO.

Full payment for all charges is due upon billing. Accounts past due over 30 days are subject to interest at a rate of 18% per annum. It is also hereby agreed, Lessee will pay to Mayfield Enterprises, Inc. any costs arising for collection of amount due; such as, attorney's fees and court costs

UNDERGROUND STORAGE TANK REMOVAL AT WALKER-TURNER PROPERTY BLOOMFIELD AVENUE AND LAKELAND ROAD SANTA FE SPRINGS, CALIFORNIA

Los Angeles County
Department of Public Works
File Number I-6657-1H
Closure Permit Number 6680 B

Submitted to:

Turner Development Corporation
Newport Beach, California

TRC Project Number 7014-N23-00

April 6, 1990

TRC
Environmental Consultants, Inc.

23361 Madero Street
Suite 100
Mission Viejo, CA 92691-2730

(714) 581-6860

A TRC Company

Factual information regarding operations, and test data has been obtained in part from company personnel, the facility audited, and its employees or agents and has been assumed by us to be correct and complete. Since the statements in this report are subject to professional interpretation, they could result in differing conclusions. In addition, the findings and conclusions contained in this report are based on various quantitative and qualitative factors as they existed on the date of this report. Therefore, there can be no assurance that intervening factors will not arise which will affect the conclusions reached by TRC. This information is submitted solely for the internal use of Turner Development Corporation.

TRC accepts no liability for direct or consequential loss or damage to Turner Development Corporation, or to other parties resulting from use of the information or recommendations contained herein. Acceptance of or reliance upon submitted recommendations and/or suggestions in no way assures elimination of present or future liability or the fulfillment of any obligations as may be required by any local, state, or federal laws or any modifications or changes thereto.

TRC
Environmental
Consultants, Inc.

23361 Madero Street, Suite 100, Mission Viejo, CA 92691-2730 (714) 581-6860

April 6, 1990

Ms. Susan Drummy
Turner Development Corporation
1200 Quail Street, Suite 160
Newport Beach, CA 92660

RE: Underground Storage Tank Removal and Soils Investigation at Walker-Turner Property
Bloomfield Avenue and Lakeland Road, Santa Fe Springs, California
TRC Project Number 7014-N23-00

Dear Susan:

TRC Environmental Consultants, Inc. is pleased to present this report on the above referenced study for your review. If you have any questions or require further clarification, please contact us.

Sincerely,

TRC ENVIRONMENTAL CONSULTANTS, INC.

George D. Glazer
Project Hydrogeologist

Patricia D. Royalty
Principal Consulting Hydrogeologist

Anthony F. Severini, R.G.
Vice President and Manager
Hazardous Waste Services

CC: Rusty Turner, Turner Development Corporation

REGISTERED GEOLOGIST
ANTHONY F. SEVERINI
NO. 3852
STATE OF CALIFORNIA

TABLE OF CONTENTS

TRC

1.0 INTRODUCTION

On January 23, 1990, Turner Development Corporation retained TRC Environmental Consultants, Inc. (TRC) to observe the removal of four underground storage tanks (USTs) at the Walker-Turner property located at the southeastern corner of Bloomfield Avenue and Lakeland Road, Santa Fe Springs, California (Figures 1 and 2). This report has been prepared to satisfy the permanent closure requirements for USTs previously storing hazardous materials on the property as defined in the permit issued by the Los Angeles County Department of Public Works, Waste Management Division. In addition, this report summarizes the results of the removal of a UST from the subject property performed by L. Blain Company and observed by Dames & Moore in 1986.

The subject property is currently owned by Mr. George Walker and is in an escrow account for sale to Turner Development Corporation. The site is currently listed on the "California Department of Health Services Expenditure Plan for the Hazardous Waste Cleanup Bond Act of 1984" (CDHS Expenditure Plan). The CDHS Expenditure Plan identifies the site as being on the State Superfund Site Backlog. TRC is conducting an ongoing environmental assessment of the subject property and preparing a Preliminary Endangerment Assessment (PEA) report for the California Department of Health Services (CDHS) who will be providing clean-up oversight. It is anticipated that this PEA will be followed by a Remedial Action Plan (RAP) for the site.

Previous site investigations revealed that four USTs were present on the subject property. These included one 3,000-gallon, one 4,000-gallon, one 6,000-gallon, and one 10,000-gallon storage tanks. All four tanks had been taken out of service in the past. The locations of these tanks on the subject property are shown on Figure 3.

During a geophysical survey of the subject property, it was determined that the 10,000-gallon tank was completely full of an apparent mixture of water and gasoline fuel. The 3,000-gallon tank appeared to contain a small amount of degraded fuel product. The remaining two tanks were empty.

The excavation and removal of the tanks was performed by Mayfield Enterprises, Inc. under direct contract with Turner Development Corporation. TRC observed the tank removals and collected soil samples from beneath the tanks on February 1, 1990. The soil sampling was performed

by Project Hydrogeologist George Dean Glazer. Principal Consulting Hydrogeologist Patricia D. Royalty provided report review and overall management of this project. Final approval of the work and this report was provided by Anthony F. Severini, R.G., Vice President and Manager of Hazardous Waste Services. The following is a summary of our findings.

0 4

Statute Miles

USGS 1:250,000 SCALE
NAME TOPOGRAPHIC MAP

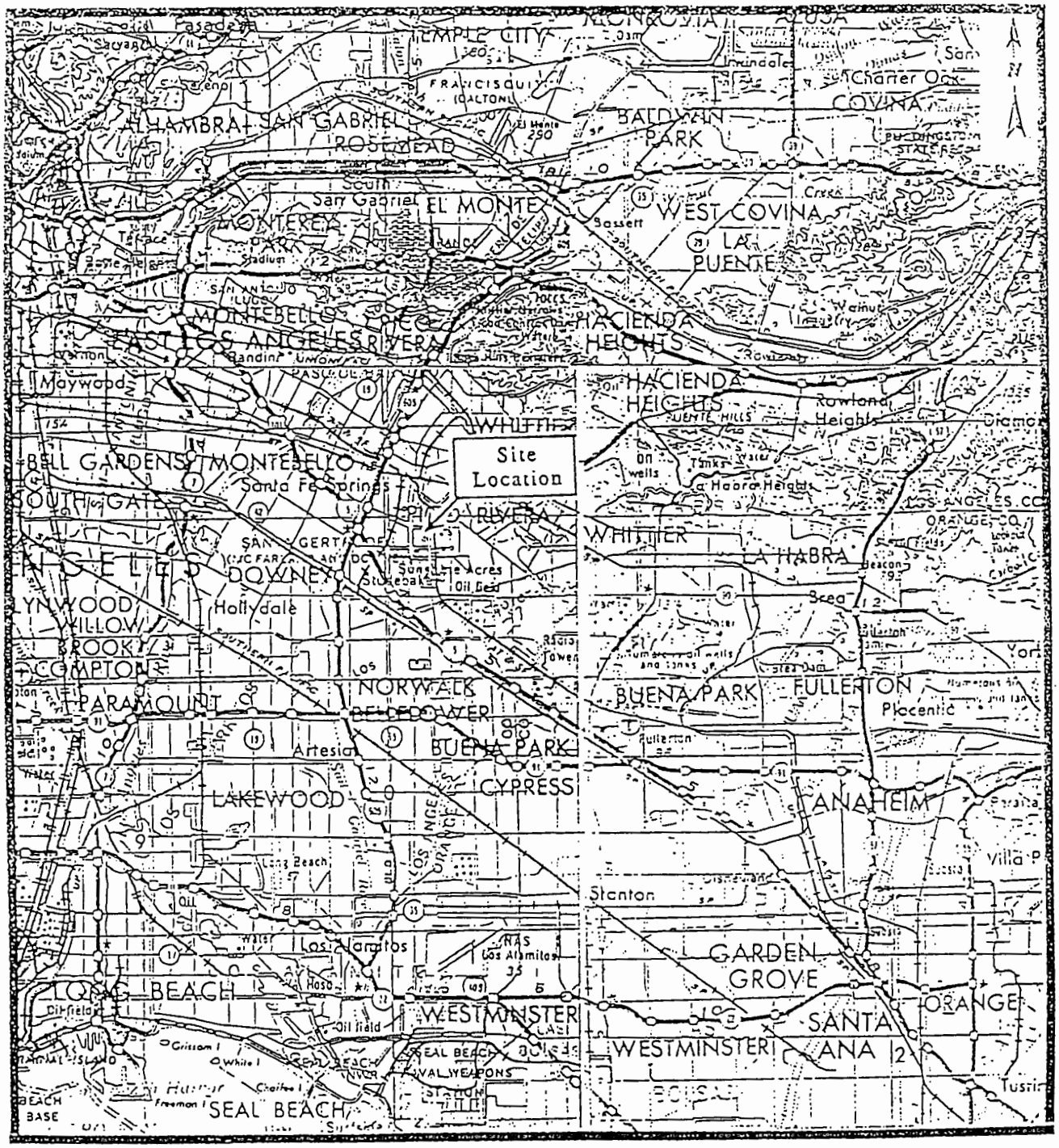
REGIONAL SITE LOCATION

WALKER-TURNER PROPERTY
SANTA FE SPRINGS, CALIFORNIA

7014-N23

FIGURE 1

TRC



0 1/2

Statute Miles

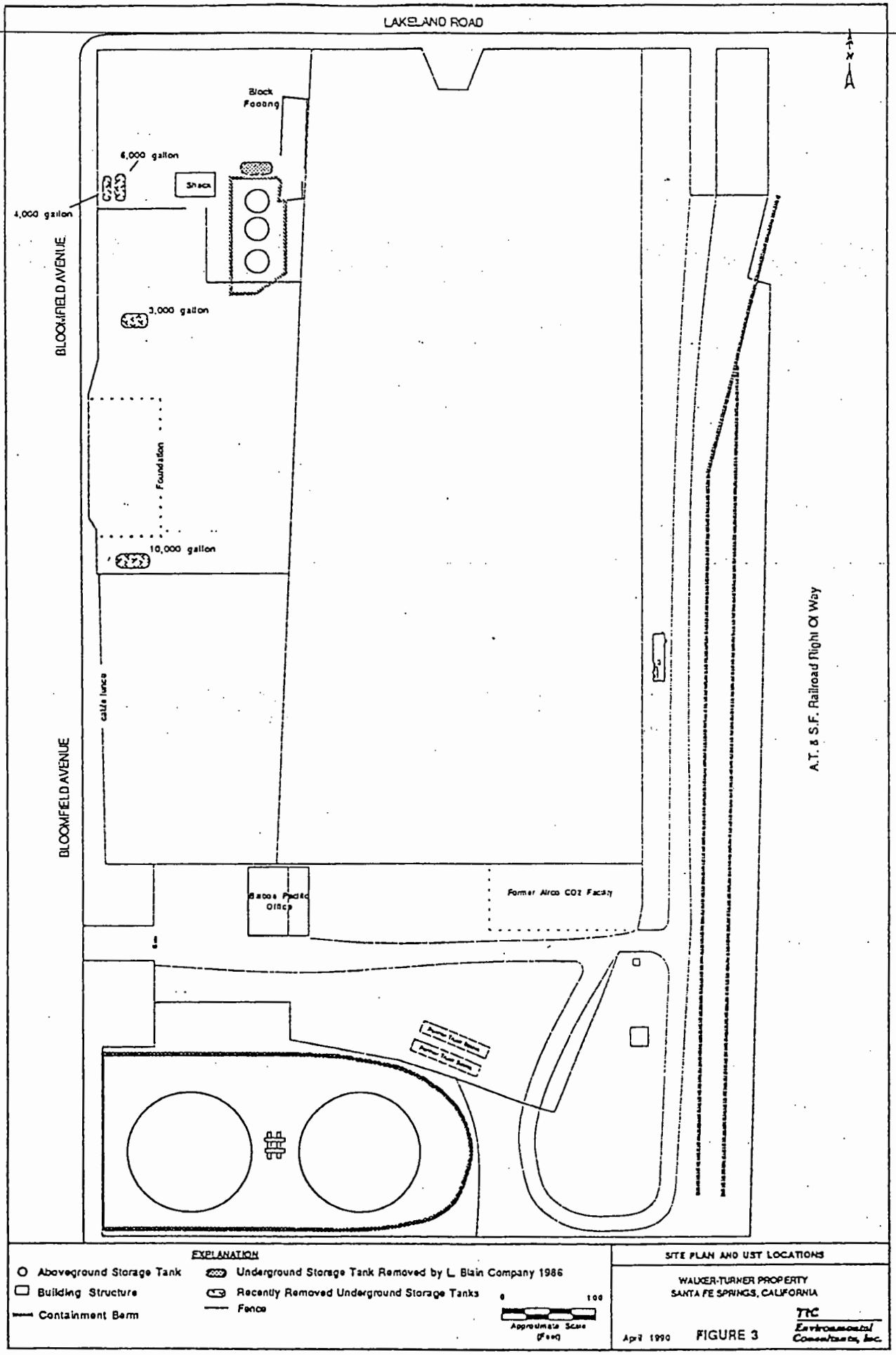
USGS 1:24,000 SCALE
NAME QUADRANGLE TOPOGRAPHIC MAP

SITE LOCATION

WALKER-TURNER PROPERTY
SANTA FE SPRINGS, CALIFORNIA

7014-N23 FIGURE 2

TRC


LAKELAND ROAD
N
Block Footing
6,000 gallon
Shack
4,000 gallon
BLOOMFIELD AVENUE
3,000 gallon
Foundation
10,000 gallon
cattle fence
BLOOMFIELD AVENUE
A.T. & S.F. Railroad Right Of Way
Former Atlas CO2 Facility
EXPLANATION
Aboveground Storage Tank
Building Structure
Containment Berm
Underground Storage Tank Removed by L. Blain Company 1986
Recently Removed Underground Storage Tanks
Fence
0
100
Approximate Scale (Feet)
SITE PLAN AND UST LOCATIONS
WALKER-TURNER PROPERTY
SANTA FE SPRINGS, CALIFORNIA
April 1990
FIGURE 3
TRC Environmental Consultants, Inc.

TRC

2.0 HISTORICAL INVESTIGATIONS

Prior to TRC's involvement in the investigations on the subject property, a UST was removed from the subject property by L. Blain Company a soils investigation was performed by Dames & Moore. A portion of the report relevant to the UST removal prepared by Dames & Moore is included in Appendix A. The report indicates that the tank was apparently structurally sound at the time of removal. Evidence of leakage was noted in the immediate vicinity of the fillport connections on top of the tank. Four soil samples were taken from the excavation and analyzed for California Administrative Manual (CAM) metals and polychlorinated biphenyls (PCBs) by a California certified laboratory. Results indicated the presence of elevated levels of several metals as well as the presence of PCBs (Appendix A).

In October 1989, TRC conducted a soils investigation which included several soil borings in the vicinity of the previously removed UST. The presence of PCBs was found to extend beyond the area of this UST (Figure 4).

In November 1989, TRC performed additional investigations on the subject property. These investigations included soil borings adjacent to the known USTs. Additionally, a geophysical survey of the subject property was performed resulting in several areas of magnetic anomalies. These anomalies were explored by trenching with a backhoe. One of these anomalies was a previously unknown 3,000-gallon UST.

Three soil borings were drilled adjacent to the 4,000-gallon and 6,000-gallon UST group on the northwestern corner of the subject property (Figure 4). These borings are identified as TSB-1, TSB-2, and W-1 (TSB-3). The borings were drilled to depths between 20 to 129 feet with a CME-55 drilling rig using a 6-inch hollow-stem auger. Soil samples were collected at 5 foot intervals by driving a modified California split-spoon sampler equipped with clean brass rings ahead of the auger bit. One sample ring was sealed, capped, labeled, double bagged in plastic bags, and placed on ice for transportation to Del Mar Analytical, a California certified laboratory in Irvine, California. Samples were extracted from a second ring and placed in plastic bags for field screening with a HNu photoionization device (PID) for determination of which samples would be analyzed by the laboratory.

Field readings on samples from TSB-1 and TSB-2 did not indicated the presence of detectable hydrocarbon contamination. Field readings from W-1 (TSB-3) indicated possible contamination at a depth of 20 to 40 feet. The 20 foot sample was analyzed for total petroleum hydrocarbons (TPH) using EPA method 418.1. No levels of TPH were found above the detection limit. The 35 foot sample was analyzed for TPH in the diesel fuel range using EPA method 8015 (modified). No levels of TPH were found above the detection limit.

Groundwater was encountered at a depth of 121 feet below ground level during the drilling of TSB-3. Soil boring TSB-3 was completed as a groundwater monitoring well (W-1). Depth to groundwater was subsequently measured to be 105 feet below ground surface.

Two soil borings were drilled adjacent to the 10,000-gallon UST (Figure 4). These borings are identified as TMB-3 at the west end of the tank and TSB-6 at the east end of the tank. Both borings were drilled to a depth of 30 feet using the above describe procedures.

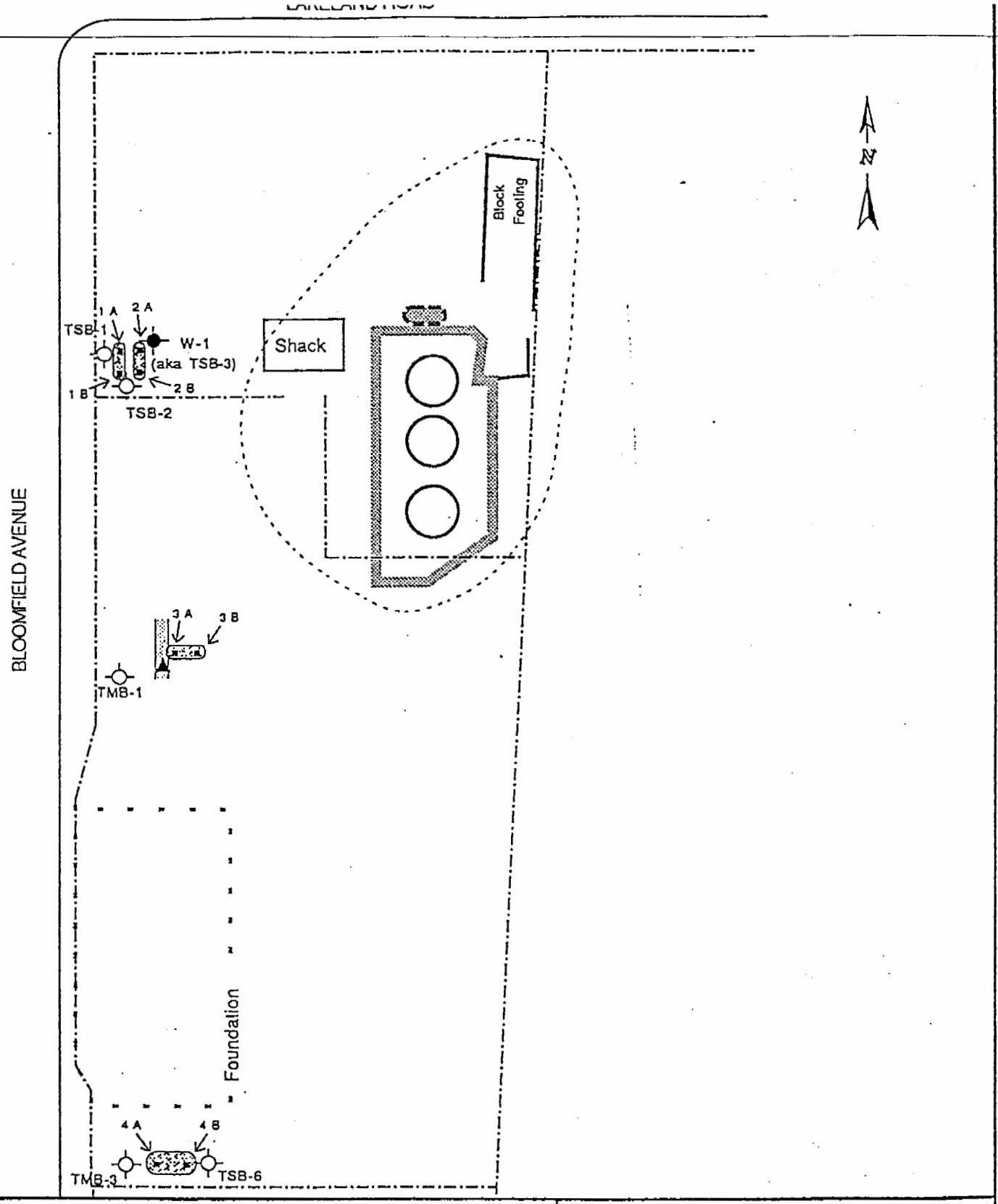
Field readings on samples from TMB-3 and TSB-6 indicated potential hydrocarbon contamination. Samples from TMB-3 at depths of 10 and 30 feet were analyzed for TPH in the gasoline range using EPA method 8015 (modified). The 10 foot sample was found to contain 2,200 mg/Kg of TPH and the 30 foot sample had 3.3 mg/Kg of TPH. Samples from TSB-6 at depths of 10 and 30 feet were analyzed for TPH in the gasoline range with benzene, toluene, ethylbenzene and xylene (BTEX) distinction using EPA methods 8015 (modified) and 8020. The 10 foot sample was found to have 0.14 mg/Kg of benzene, 4.4 mg/Kg toluene, 22 mg/Kg ethylbenzene, 120 mg/Kg xylenes, and 1,800 mg/Kg TPH. The 30 foot sample did not contain any of the constituents tested for above the detection limits.

Soil samples collected during the trenching operations were placed in clean glass sample jars, sealed, labeled, double bagged in plastic bags, and placed on ice for transportation to the laboratory. The sample collected at the western end of the exposed 3,000-gallon UST (Figure 4) at a depth of 7 feet below ground surface was analyzed for TPH with BTEX distinction using EPA methods 8015 (modified) and 8020. This sample was found to have 0.08 mg/Kg ethylbenzene and 0.10 mg/kg xylenes. No levels of benzene, toluene, or TPH were found above the detection limits.

A soil boring was drilled at the western end of the 3,000-gallon UST to a depth of 30 feet using the previously described procedures. This boring is identified as TMB-1 on Figure 4. Field readings with the PID did not indicate the presence of any detectable hydrocarbon contamination in the samples. The sample from a depth of 20 feet was analyzed for TPH in the diesel fuel and gasoline ranges using EPA method 8015 (modified). No levels of TPH were found above the detection limits.

All soil samples collected during these investigation were transported to Del Mar Analytical using standard chain-of-custody procedures. Copies of the chain-of-custody, laboratory analyses, and borehole logs for the above described investigations are included in Appendix B.

In summary, hydrocarbon contaminated soil was identified in the area of the 10,000-gallon UST to an approximate depth of 30 feet. A small amount of localized hydrocarbon soil contamination was also found around the western end of the 3,000-gallon UST. No hydrocarbon soil contamination was observed around the 4,000-gallon and 6,000-gallon USTs.



EXPLANATION

- Aboveground Storage Tank
- Trench Sample
- Grab Sample
- Borehole Location
- Recently Removed UST
- UST Removed by L. Blain Company 1986
- Fence
- Containment Berm

0 100

Approximate Scale (Feet)

BOREHOLE AND SAMPLING LOCATIONS

WALKER-TURNER PROPERTY
SANTA FE SPRINGS, CALIFORNIA

7014-N23 FIGURE 4

TRC Environmental Consultants, Inc.

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2.0 TANK EXCAVATION, REMOVAL, AND SOIL SAMPLING

On January 31, 1990, Mayfield Enterprises, Inc. began removal of the top soil from the four tanks and uncovered associated plumbing connected to the tanks. Mayfield Enterprises obtained permits to excavate and remove the tanks from the Los Angeles County Department of Public Works, Waste Management Division and the City of Santa Fe Springs Fire Department. The tank removals were performed in accordance with existing regulations of the State of California, City of Santa Fe Springs, and National Fire Prevention Code. Copies of all permits obtained by Mayfield Enterprises for the tank removals are included in Appendix C.

On February 1, 1990, TRC personnel were present on site for the removal of the USTs. Top soil had been stockpiled next to the excavations. Soils removed from the excavation around the 10,000-gallon UST had been covered with plastic sheeting. Approximately 1,400 gallons of liquid had been pumped from the 10,000-gallon UST into a tank truck for transportation by Crosby & Overton to Gibson Oil and Refining Company in Bakersfield, California. The remaining liquids (approximately 8,500 gallons) were pumped into tank trucks and transported by Crosby & Overton to De Menno Kerdoon in Compton, California for recycling. G. V. Adams Inc. Environmental Services of Torrance California triple rinsed each tank with water. The rinseate was pumped into tank trucks and transported by Crosby & Overton to De Menno Kerdoon for recycling. Copies of manifests for these liquids are included in Appendix D. The original manifests were forwarded by TRC to the California Department of Health Services on behalf of the property owner. A copy of this transmittal letter is also included in Appendix D. After the liquids had been removed from the tanks, dry ice was placed inside each tank. According to Mr. Jim Mayfield of Mayfield Enterprises, approximately 15 pounds of dry ice per 1,000-gallon capacity had been added to each tank. This application of dry ice was repeated two more times.

The tanks were removed from the site by J. D. Brodine & Son Inc. using a crane to lift them onto flatbed trucks. The four tanks were all of steel construction and were found to be in good condition upon removal. No obvious holes or leaks were noted in the tanks. The tanks were transported by J. D. Brodine & Son, Inc. to their facility in Fontana, California where they were cut up for scrap. A copy of the certification of tank disposal is included in Appendix D.

Present during the removal were Inspector Fred Nikitin of the City of Santa Fe Springs Fire Department, Mr. Jim Mayfield of Mayfield Enterprises, and TRC personnel. Mr. Nikitin inspected the tanks and approved that they were vapor free in accordance with City of Santa Fe Springs Fire Department requirements. The tanks were inspected for explosive atmosphere using a Bacract TLV catalytic vapor analyzer.

After the tanks were removed from the excavations, soil samples were collected from beneath the tanks at depths of approximately 1 to 2 feet. The locations of the eight samples are shown on Figure 4. Soil samples 1A, 1B, 2A, and 2B were retrieved from the base of a clam-shell bucket. Soil samples 3A, 3B, 4A, and 4B were retrieved from the bucket of a backhoe. The samples were placed in clean glass jars, capped, sealed, labeled, double bagged in plastic bags, and placed on ice for transportation to the laboratory for analysis. The soils from beneath the tanks in the buckets were also monitored using an OVM PID during and after the tank removals. PID readings of 20 to 25 parts per million (ppm) were recorded on soil retrieved from location 4B. No PID readings were observed at the remaining sampling locations.

The samples collected from beneath the four tanks were transported to Del Mar Analytical using standard chain-of-custody procedures. The samples were analyzed for TPH in the diesel fuel and gasoline ranges with BTEX distinction using EPA methods 8015 (modified) and 8020. Only sample 4B below the 10,000-gallon UST had levels of contaminants tested for above the detection limits. This sample was found to have 0.38 mg/Kg benzene, 0.55 mg/Kg toluene, 0.77 mg/Kg ethylbenzene, 3.2 mg/Kg xylenes, and 24 mg/Kg TPH. Laboratory results and accompanying chain-of-custody documentation are included in Appendix E.

Visual observations of the excavations revealed staining below the 10,000-gallon UST (Tank 4). No obvious staining was observed in the remaining excavations. The stockpiles of excavated soils were used to back-fill the open excavations.

3.0 SUMMARY AND CONCLUSIONS

TRC observed the removal of four USTs and performed a soils investigation on the Walker-Turner property located at the southeastern corner of Bloomfield Avenue and Lakeland Road in Santa Fe Springs, California on February 1, 1990. The excavated tanks appeared to be in good condition. Contaminated soils were identified around the 10,000-gallon UST in past investigations and confirmed by soil samples recovered from beneath the tank. No other areas of contamination were observed during this investigation.

TRC is presently providing environmental consulting services to Turner Development Corporation on the subject property. The work performed is overseen by the California Department of Health Services (CDHS). Current plans are for the contaminated soils on the subject property which include those around the 10,000-gallon UST to be excavated and bioremediated on-site under the oversight of the CDHS. The PCB contaminated soils will be excavated and hauled to an approved disposal facility. TRC requests that the Los Angeles Department of Public Works grant closure of all the USTs with the understanding that the CDHS will oversee the excavation and/or remediation of contaminated soils.

APPENDIX A

Dames & Moore Report

Dames & Moore
812 Anacapa Street, Suite A
Santa Barbara, CA 93101
(805) 963-9676 / 963-5976

October 16, 1986

Redevelopment Agency
City of Santa Fe Springs
11710 Telegraph Road
Santa Fe Springs, California 90670

Attention: Richard H. Weaver
Director, Redevelopment Agency

Report
Site Assessment Recommendations
Walker Properties Site
Santa Fe Springs, California

INTRODUCTION

Presented in this report are our recommendations regarding the scope of additional site assessment studies to be conducted at the Walker Properties site at 11020 Bloomfield Road, Santa Fe Springs, California. This report includes the results of our observations of the removal of an underground tank by L. Blain Co. and a soil sampling program conducted in the excavation following tank removal. The general site area is shown on Figure 1. Dames & Moore has previously conducted several projects at the subject site (see our Subsurface Investigation Report, dated July 1, 1985, and our Draft Action Plan, dated November 27, 1985.

The removal of the underground tank by L. Blain Company was observed by Dames & Moore to ensure compliance with Dames & Moore's Draft Action Plan, L. Blain's written plan of action and applicable environmental regulations. The

soil samples were collected to evaluate whether soil contamination exists in the floor and walls of the excavation from which the underground tank was removed. A detail of the underground tank excavation showing the soil sample locations is presented in Figure 2. Other areas of concern on the Walker Properties site discussed in this report include the two large above-ground tanks in the southern portion of the site and the small above-ground tanks present in the vicinity of the underground tank area (Figures 1 and 2).

PURPOSE AND SCOPE

The purpose of the current investigation is to: (1) ensure that the tank removal procedure was conducted according to our Draft Action Plan, L. Blain Company's plan of action and in compliance with applicable environmental regulations; (2) collect soil samples from the floor and walls of the existing excavation to determine whether potentially hazardous compounds, heavy metals and polychlorinated biphenyls (PCBs) are present in the soils surrounding the existing excavation; and, (3) provide additional site assessment recommendations for the two large above ground tanks area and the small above ground tanks areas as well as the underground tank excavation. The scope of the investigative activities completed to date includes observation of the tank removal, collection of four soil samples, analysis of the samples for California Administrative Manual (CAM) metals (using EPA approved ICAP method) and PCBs (using EPA method 8080), interpretation of the analytical results, and formulating recommendations for additional site investigations and remediation. The results and conclusions of our completed studies are discussed below followed by our recommendations for further sampling, analysis and remediation.

INVESTIGATIVE METHODS

Underground Tank Removal

On September 18, 1986, a Dames & Moore geologist was onsite at the Walker Properties site and observed the underground tank removal procedure. Representatives of the City of Santa Fe Springs Fire Department and the Los Angeles County Department of Public Works were also present. The soils overlying and adjacent to the sides of the tank had previously been removed by L. Blain

if any, from the sample 3 area. The samples were collected with pre-cleaned stainless steel scoops and placed in pre-cleaned wide mouth glass jars equipped with Teflon-lined lids. After closure, the sample jars were sealed with chain of custody seals and electrical tape. Labels attached to each sample jar included the following information: (1) sample number; (2) date and time of collection; (3) collector's name; (4) owner; and (5) location. The samples containers were stored in an ice chest cooled with blue ice pending delivery to the analytical laboratory. Completed chain of custody forms accompanied the samples which were hand delivered to the analytical laboratory.

Analytical Testing Program

The soil samples were analyzed by International Technology Corporation Analytical Services Laboratory in Cerritos, California (IT). The samples were analyzed for CAM metals using an EPA-approved ICAP methodology, and for PCBs using EPA Method 8080 which includes gas chromatography with electron capture detection (GC-ECD). Quality control was maintained throughout laboratory analytical procedures. The results of this analysis are summarized in Table 1 and presented in Appendix A. The IT laboratory is State of California Department of Health Services-approved and EPA-accredited to perform these procedures.

RESULTS AND CONCLUSIONS

Investigative Results

The results of the laboratory analyses of the soil samples (Table 1 and Appendix A) indicate that the surface soils in the existing excavation contain elevated levels of PCBs and some metals. The California Administrative Code Title 22, Division 4, Chapter 30, Article 11, Section 66699 has established concentration limits for particular compounds/substances above which the substances being tested are considered to be hazardous.

The California Department of Health Services considers any waste which contains a compound listed in Table 1 to be a hazardous waste if: (1) the total concentration of a particular compound exceeds the Total Threshold Limit Concentration (TTLC) for that compound; or, (2) the extractable concentration

(in mg/l), as determined by a Waste Extraction Test (WET), of any listed compound exceeds the respective Soluble Threshold Limit Concentration (STLC) for that compound. It should be noted that the samples were analyzed only for total concentrations; WET tests were not performed.

Total concentrations in Samples 2 and 3 exceed the TTLC for PCB's (50 mg/kg or ppm) and sample 1 exceeds the STLC for PCB (5mg/l or ppm). Total concentration in Sample 3 also exceeds the TTLC for lead (1,000 mg/kg). Total concentrations in all four samples exceed the STLC, but are less than the TTLC, for barium (100 mg/l), cadmium (1.0 mg/l) and vanadium (24 mg/l). Total concentrations in samples 1, 2 and 4 exceed the STLC, but are less than the TTLC, for copper (25 mg/l) and lead (5.0 mg/l). Total concentration in sample 4 exceeds the STLC, but is less than the TTLC for nickel (20 mg/l) and sample 3 exceeds the STLC, but is less than the TTLC for zinc (250 mg/l).

CONCLUSIONS

It is our conclusion that at least some of the soils in the side walls and bottom of the excavation are hazardous because of their PCB and lead concentrtions. Hazardous concentrations of barium, cadmium, vanadium, copper, nickel and zinc may exist and could be determined by performing WET tests on the samples.

Our evaluation of the analytical results suggest that a positive correlation exists between stained soils and elevated contaminant concentrations. We believe that stained soils will exhibit detectable contaminant concentrations when analyzed, while clean appearing soils will contain no detectable contaminants. Our recommendations for further assessment, discussed below, are based on this correlation.

RECOMMENDATIONS

Underground Tank Excavation

Our recommendation is to evaluate the vertical and lateral extent of contamination in the vicinity of the underground tank excavation for the purpose of developing costs for site remediation by excavation and removal of con-

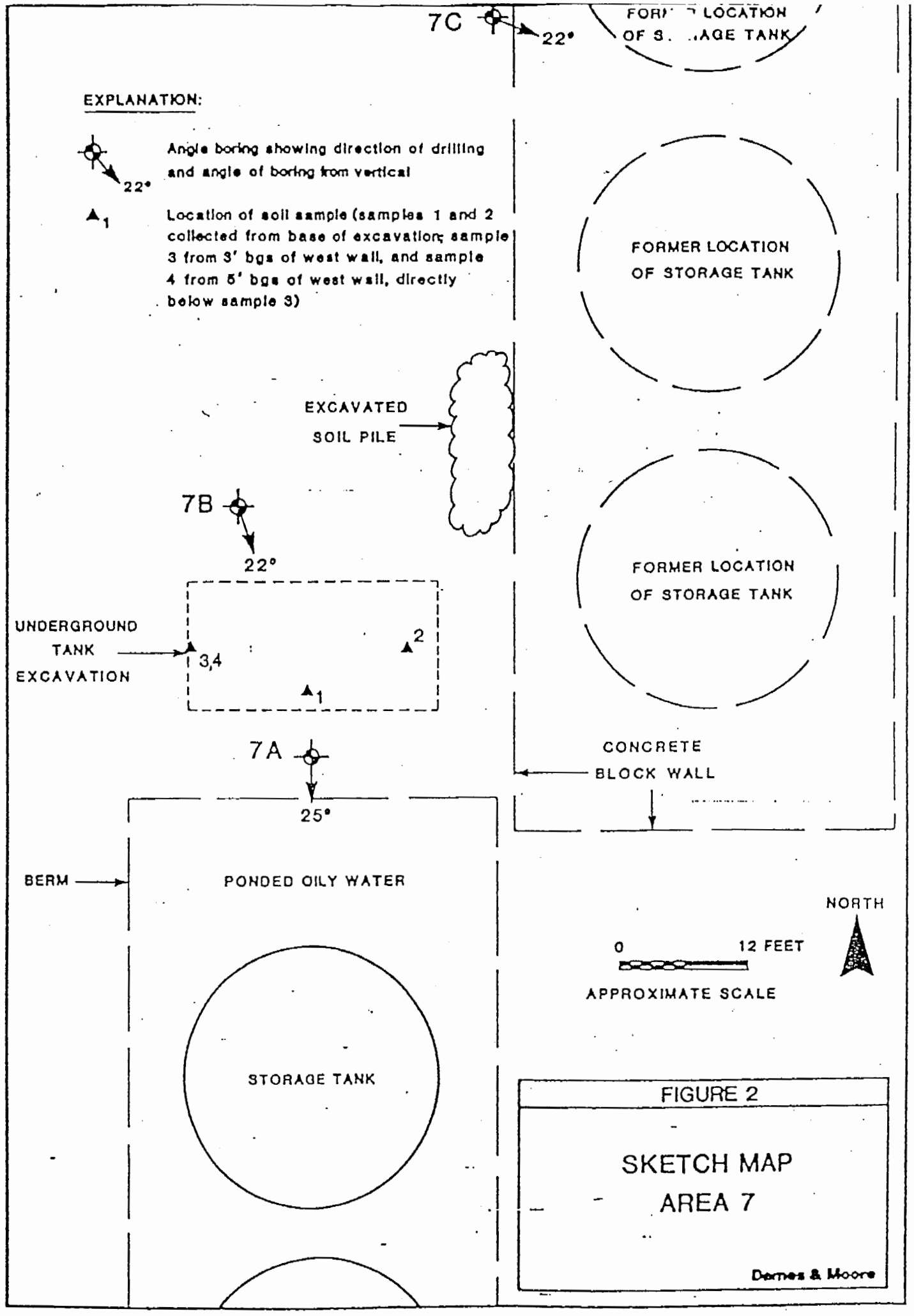
7C
22°
FORMER LOCATION OF STORAGE TANK
EXPLANATION:
Angle boring showing direction of drilling and angle of boring from vertical
22°
▲1
Location of soil sample (samples 1 and 2 collected from base of excavation; sample 3 from 3' bgs of west wall, and sample 4 from 5' bgs of west wall, directly below sample 3)
FORMER LOCATION OF STORAGE TANK
EXCAVATED SOIL PILE
7B
22°
FORMER LOCATION OF STORAGE TANK
UNDERGROUND TANK EXCAVATION
3,4
2
1
7A
CONCRETE BLOCK WALL
25°
BERM
PONDED OILY WATER
NORTH
0
12 FEET
APPROXIMATE SCALE
STORAGE TANK
FIGURE 2
SKETCH MAP
AREA 7
Dames & Moore

TABLE 1
SOIL SAMPLES ANALYTICAL RESULTS SUMMARY(1)

CONSTITUENT	SAMPLE AND CONCENTRATION(2)			
	1	2	3	4
PCB-1242	-	58	248	1
PCB-1248	29	-	-	-
Antimony	TR <2(3)	TR <2	TR <2	TR <2
Arsenic	2.63	4.39	1.42	2.50
Barium	190	150	260	190
Beryllium	0.5	0.4	TR <0.3	0.7
Cadmium	3.1	2.1	1.7	3.1
Chromium (total)	26	23	16	30
Cobalt	14	12	6.0	16
Copper	32	38	16	27
Lead	130	54	1100	74
Mercury	0.17	TR <0.1	0.13	0.12
Molybdenum	1.2	1.0	0.7	0.9
Nickel	18	16	10	20
Silver	1.3	1.5	ND <0.3(4)	ND <0.3
Vanadium	63	55	32	74
Zinc	120	100	490	74

(1) Only those constituents detected in at least one of the samples are shown herein (selenium and thallium were not detected in any of the samples).

(2) PCB concentrations are in parts per million (ppm); and metals concentrations are in milligrams per kilogram (mg/kg) which is equivalent to ppm.

(3) The trace less than (TR<) symbol means "trace detected but not at or above the indicated value (detection limit)".

(4) The not detected less than (ND<) symbol means "not present at or above the indicated value (detection limit)".

17.0G/6-T1

Table I

	Milligrams/kilogram			
	13262-013-42-1	13262-013-42-2	13262-013-42-3	13262-013-42-4
Antimony	TR<2	TR<2	TR<2	TR<2
Arsenic	2.63	4.39	1.42	2.50
Barium	190	150	260	190
Beryllium	0.5	0.4	TR<0.3	0.7
Cadmium	3.1	2.1	1.7	3.1
Chromium	26	23	16	30
Cobalt	14	12	6.0	16
Copper	32	38	16	27
Lead	130	54	1100	74
Mercury	0.17	TR<0.1	0.13	0.12
Molybdenum	1.2	1.0	0.7	0.9
Nickel	18	16	10	20
Selenium	ND<0.3	ND<0.3	ND<0.3	ND<0.3
Silver	1.3	1.5	ND<0.3	ND<0.3
Thallium	ND<5	ND<5	ND<5	ND<5
Vanadium	63	55	32	74
Zinc	120	100	490	74

Table II

Sample Identification	Total PCB Micrograms/gram	PCB-1242	PCB-1248
	Parts Per million		
13262-013-42-1	29	----	29
13262-013-42-2	58	58	----
13262-013-42-3	248	248	----
13262-013-42-4	1	1	----

ND - This compound was not detected; the limit of detection for this analysis is less than the amount stated in the table above.

TR - Trace, this compound was present, but was below the level at which concentration could be determined.

APPENDIX B

Historical

Borehole Logs, Laboratory Analyses and Chain-of-Custody Documentation

TRC

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BOREHOLE LOG

Project Name: Turner, Santa Fe Springs			
Project No. 6700-P23-03	Borehole No. TSB-2		Sheet 1 of
Borehole Location Parcel 3, South of tanks		Elevation and Datum:	
Drilling Co. West Hazmat	Driller:	Date Started 10-31-89	Date Finished 10-31-89
Drilling Equipment: CME-55	Helper:	Total Depth (feet) 20	Depth to Bedrock (feet) N/A
Drilling Method: 4 inch Hollow Stem Auger		Borehole Diameter: 4 inches	
Drilling Fluid: N/A		Depth to Water Initial: N/A	Comp. N/A
Completion Information: Backfill w/ native		Logged by: SAA	Checked by:

Depth (feet)	Description	Lithology	Headspace (ppm)	Samples: Number	Samples: Blow Count	Remarks
	0'-3', Reddish brown silt w/fine sand (80/20), crubbly, dry, odorless					
5	Reddish brown compact silt, minor fine sand, dry, odorless			5		Becoming less red ↓
10	Medium brown silt and fine sand (70/30), compact, dry, well sorted, no odor		0	10		
15	Medium brown fine sand, well sorted, dry, odorless			15		
20	Brownish grey fine sand, well sorted, dry, odorless		0	20		
						Total depth 20', dry
25						
30						
35						
40						

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Environmental Consultants, Inc.

BOREHOLE LOG

Project Name: Turner, Santa Fe Springs

Project No. 6700-P23-03 | Borehole No. Well W-1 (Soil Boring TSB-3) | Sheet 2 of 2

Depth (feet)	Description	Lithology	Headspace (ppm)	Samples: Number	Samples: Blow Count	Remarks
50	Light Brown Fine-Medium Sand (50/50), Poorly Sorted, Angular, Moist		6	50		
60	Grey Fine Sand w/Silt (80/20), Moist, Faint Odor		6	60		
70	Greenish Grey Silt w/Clay (60/40), Ductile, Moist		5	70		
80	Grey Silt, Moist		4	80		
85	Grey Sand (Fine-Coarse), (30/30/30/), Well Sorted, Angular, Strong odor, (End Drilling 10-31-89)		5	85		
90	(Begin Drilling 11-1-89) Grey Sand Fine-Medium, Well Sorted, Minor Pebbles, Moist					
100	Grey Sand Fine-Medium, Well Sorted, Minor Pebbles, Moist, No Samples between 100'-130'					
110						
120						▼ 121 feet, Water
130						Total depth 129'

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Environmental Consultants, Inc.

BOREHOLE LOG

Project Name: Turner, Santa Fe Springs			
Project No. 6700-P23-03	Borehole No. TSB-6		Sheet 1 of
Borehole Location North of 10K tank		Elevation and Datum:	
Drilling Co. West Hazmat	Driller:	Date Started 10-31-89	Date Finished 10-31-89
Drilling Equipment: CME-55	Helper:	Total Depth (feet) 30	Depth to Bedrock (feet) N/A
Drilling Method: 4 inch Hollow Stem Auger		Borehole Diameter: 4 inches	
Drilling Fluid: N/A		Depth to Water Initial: N/A	Comp. N/A
Completion Information: Backfill w/ native		Logged by: SAA	Checked by:

Depth (feet)	Description	Lithology	Headspace (ppm)	Samples: Number	Samples: Blow Count	Remarks
5	Red/brown hard pan clay, dense, dry, odorless		0	5		
10	Red/brown silty fine sand (50/50), dry, well sorted strong odor		150	10		
15	Light brown fine-medium sand (50/50), dry, angula strong odor		100	15		
20	Brown silty fine sand (50/50), dry, beach like, slight odor		10	20		
25	Red/brown fine-medium sand (80/20), dry, angular slight odor		5	25		
30	Light brown fine sand, angular, dry, slight odor		1.8	30		
35						Total depth 30', dry
40						

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Environmental Consultants, Inc.

BOREHOLE LOG

Project Name: Turner, Santa Fe Springs			
Project No. 6700-P23-03	Borehole No. TMB-1		Sheet 1 of 9
Borehole Location West of Northern UST		Elevation and Datum:	
Drilling Co. West Hazmat	Driller: Dave	Date Started 11-6-89	Date Finished 11-6-89
Drilling Equipment: CME-55	Helper: Craig	Total Depth (feet) 30	Depth to Bedrock (feet) N/A
Drilling Method: 8 inch Hollow Stem Auger		Borehole Diameter: 8 inches	
Drilling Fluid: N/A		Depth to Water Initial: N/A	Comp. N/A
Completion Information: Backfill with native		Logged by: MIJ	Checked by:

Depth (feet)	Description	Lithology	Headspace (ppm)	Samples: Number	Samples: Blow Count	Remarks
						Background Headspace .6 ppm
5	Dark Brown Silt		< .6	5		
10	Light Brown Sandy Silt		< .6	10		
15	Light Brown Silty Fine Sand		< .6	15		
20	Light Brown Silty Fine Sand (poor return, no bag sample)			20		
25	Light Brown Silty Fine-Medium Sand		< .6	25		
30	Light Brown Silty Fine-Medium Sand		< .6	30		Total Depth 30', Dry

TRC

TRC
Environmental
Consultants, Inc.

BOREHOLE LOG

Project Name: Turner, Santa Fe Springs			
Project No. 6700-P23-03	Borehole No. TMB-3		Sheet 3 of 9
Borehole Location By Southern UST		Elevation and Datum:	
Drilling Co. West Hazmat	Driller: Dave	Date Started 11-6-89	Date Finished 11-6-89
Drilling Equipment: CME-55	Helper: Craig	Total Depth (feet) 30	Depth to Bedrock (feet) N/A
Drilling Method: 8 inch Hollow Stem Auger		Borehole Diameter: 8 inches	
Drilling Fluid: N/A		Depth to Water: Initial: N/A	Comp. N/A
Completion Information: Backfill with native		Logged by: MIJ	Checked by:

Depth (feet)	Description	Lithology	Headspace (ppm)	Samples: Number	Samples: Blow Count	Remarks
						Background Headspace .6 ppm
5	Dark Brown Sandy Silt		2	5		
10	Dark Brown Clayey Silt		95	10		
15	Greenish Grey and Light Brown Silt		45	15		
20	Greenish Grey and Light Brown Silt		9	20		
25	Greenish Grey and Light Brown Sandy Silt		8.5	25		
30	Mixed Grey, Brown, Opaque Fine-Medium Sand		2	30		Total Depth 30', Dry

TRC

Del Mar Analytical

18102 Sky Park South, Suite F • Irvine, CA 92714
(714) 261-1022 • FAX (714) 261-1228

TRC Environmental Consultants
23361 Madero St., Suite 100
Mission Viejo, CA 92691

Date Sampled: 10/31/89
Date Received: 11/01/89
Date Analyzed: 11/02/89
Date Reported: 11/02/89

Attention: Derek Faulk

Project: 6700-P23-04, Turner-Santa Fe Springs

Analysis: Total Recoverable Petroleum Hydrocarbons:
Soil Samples

Sample Description	Sample Number	Detection Limits ppm	Sample Results ppm
TSB3-20	9110001	5	N.D.

N.D. = None Detected above stated Detection Limit

This analysis was performed by extracting the sample with Freon 113 and using EPA method 418.1 for hydrocarbon detection (IR absorbtion).

Del Mar Analytical

Gary Steube
Laboratory Director

Del Mar Analytical

18102 Sky Park South, Suite F · Irvine, CA 92714
(714) 261-1022 · FAX (714) 261-1228

TRC Environmental Consultants
23361 Madero St., Suite 100
Mission Viejo, CA 92691

Date Sampled: 10/31/89
Date Received: 11/01/89
Date Analyzed: 11/01/89
Date Reported: 11/02/89

Attention: Derek Faulk

Project: 6700-P23-04, Turner-Santa Fe Springs

Analysis: Total Petroleum Hydrocarbons : Soil Samples

Sample Description	Sample Number	Detection Limits ppm	Sample Results ppm
TSB3-35	9110002	5	N.D.

N.D. = None Detected above stated Detection Limit

This analysis was performed using EPA methods 3550 with 8015 for hydrocarbon detection. Method 8015 was modified to meet the specifications of the California LUFT Manual.

Del Mar Analytical

Gary Steube
Laboratory Director

Del Mar Analytical

18102 Sky Park South, Suite F • Irvine, CA 92714
• (714) 261-1022 • FAX (714) 261-1228

TRC Environmental Consultants
23361 Madero St., Suite 100
Mission Viejo, CA 92691

Date Sampled: 11/06/89
Date Received: 11/07/89
Date Analyzed: 11/08/89
Date Reported: 11/08/89

Attention: Derek Faulk

Project: 6700-P23-03, Turner-Sante Fe Springs

Analysis: Total Petroleum Hydrocarbons: Soil Sample

Sample Description	Sample Number	Detection Limits ppm	Sample Results ppm
TMB-1-20	9110215	1.0	N.D.
TMB-3-10	9110216	1.0	2200
TMB-3-30	9110217	1.0	3.3

N.D. = None Detected above stated Detection Limit

This analysis was performed using EPA methods 5030 with 8015 for hydrocarbon detection. Method 8015 has been modified to meet the specifications of the California LUFT Manual.

Del Mar Analytical

Gary Steube
Laboratory Director

Del Mar Analytical

18102 Sky Park South, Suite F • Irvine, CA 92714
(714) 261-1022 • FAX (714) 261-1228

TRC Environmental Consultants
23361 Madero St., Suite 100
Mission Viejo, CA 92691

Date Sampled: 10/31/89
Date Received: 11/01/89
Date Analyzed: 11/01/89
Date Reported: 11/02/89

Attention: Derek Faulk

Project: 6700-P23-04, Turner-Santa Fe Springs

Analysis: Total Hydrocarbons with BTEX distinction:
Soil Sample

Sample Description	Sample Number	Benzene ppm	Toluene ppm	Ethylbenzene ppm	Xylenes ppm	Total Hydrocarbons ppm
TSB6-10	9110016	0.14	4.4	22	120	1800
TSB6-30	9110017	N.D.	N.D.	N.D.	N.D.	N.D.
Detection Limit		0.05	0.05	0.05	0.05	1.0

N.D. = None Detected above stated Detection Limit

This analysis was performed using EPA methods 5030 with 8015 for hydrocarbon detection, and 8020 for BTEX detection. Method 8015 has been modified to meet the specifications of the California LUFT Manual.

Del Mar Analytical

Gary Steube
Laboratory Director

Del Mar Analytical

18102 Sky Park South, Suite F • Irvine, CA 92714
(714) 261-1022 • FAX (714) 261-1228

TRC Environmental Consultants
23361 Madero St., Suite 100
Mission Viejo, CA 92691

Date Sampled: 11/01/89
Date Received: 11/02/89
Date Analyzed: 11/03/89
Date Reported: 11/03/89

Attention: Derek Faulk

Project: 6700-P23-03, Turner-Santa Fe Springs

Analysis: Total Hydrocarbons with BTEX distinction:
Soil Sample

Sample Description	Sample Number	Benzene ppm	Toluene ppm	Ethylbenzene ppm	Xylenes ppm	Total Hydrocarbons ppm
Excavation 11-7	9110071	N.D.	N.D.	0.08	0.10	N.D.
Detection Limit		0.05	0.05	0.05	0.05	1.0

N.D. = None Detected above stated Detection Limit

This analysis was performed using EPA methods 5030 with 8015 for hydrocarbon detection, and 8020 for BTEX detection. Method 8015 has been modified to meet the specifications of the California LUFT Manual.

Del Mar Analytical

Gary Steube
Laboratory Director

TRC Environmental Consultants, Inc.

CHAIN OF CUSTODY RECORD

Page 1 of 2

3551

PROJECT NO. 6100-P23-04

PROJECT NAME Turner Santa Fe Springs

SAMPLERS: *(Signature)* Patricia D. Rapalty

(Printed) Patricia D. Rapalty

FIELD SAMPLE NUMBER	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	8240	418.1	8015-High						REMARKS
TSB1-5	10/31			\	Parcel 3	1									Hold
TSB1-10	↓			\	↓	1									↓
TSB1-15	↓			\	↓	1									↓
TSB1-20	↓			\	↓	1									↓
TSB2-5	↓			\	↓	1									↓
TSB2-10	↓			\	↓	1									↓
TSB2-15	↓			\	↓	1									↓
TSB2-20	↓			\	↓	1									↓
TSB3-5	↓			\	↓	1									↓
TSB3-10	↓			\	↓	1									↓
TSB3-15	↓			\	↓	1									Hold
TSB3-20	10/31			\	Parcel 3	1		X							24 hour

Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*
Edward Kim	10/31/85 / [illegible]				
(Printed) Edward Kim		(Printed)	(Printed)		(Printed)

Relinquished by: *(Signature)*	Date / Time	Received for Laboratory by: *(Signature)*	Date / Time	Remarks
		Rich Schmidt [illegible]	11/1/85 / 8:20	
(Printed)		(Printed) Schmidt		

Distribution: Original Plus One Accompanies Shipment (white and yellow); Copy to Coordinator Field Files (pink).

TRC Envi[redacted]ntal Consultants, Inc.

CHAIN OF CUSTODY RECORD

No. 3552

PROJECT NO. 6700-P23-04

PROJECT NAME Tosco, Santa Fe Springs

SAMPLERS: (Signature) Patricia D. Rayalty

(Printed) Patricia D. Rayalty

FIELD SAMPLE NUMBER	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	8240	413.1	8015 H…						REMARKS
TSB3-25	10/31			\	Panel 3	1			[illegible]						Hold
TSB3-30	↓			\	↓	1									Hold
TSB3-35	↓			\	↓	1			X						24-hour
TSB3-40	↓			\	↓	1									Hold
TSB3-50	↓			\	↓	1									Hold
TSB3-60	↓			\	↓	1									Hold
TSB3-70	↓			\	↓	1									Hold
TSB3-80	↓			\	↓	1									Hold
TSB3-85	10/31			\	Panel 3	1	X								24-hour

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Eli K.	11/1/89 7:30				
(Printed) Edward K.		(Printed)	(Printed)		(Printed)

Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks
		Ben Schiedt	11/1/89 8:30	
(Printed)		(Printed) Schiedt		

Distribution: Original Plus One Accompanies Shipment (white and yellow); Copy to Coordinator Field Files (pink).

TRC Environmental Consultants, Inc.

CHAIN OF CUSTODY RECORD

PROJECT NO.	PROJECT NAME	No.
C700-P23-04	Turner Santa Fe Springs	3669

SAMPLERS: *(Signature)* [signature] / Mary Janecek (Printed) [illegible] / Mary Janecek

PARAMETERS: NO. OF CONTAINERS; 418.1; 8015-DIESEL; 8015/8020

FIELD SAMPLE NUMBER	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	418.1	8015-DIESEL	8015/8020						REMARKS * PLEASE HOLD FOR ANALYSIS
TSB-5-80	10/31			X	Center Area, pipe end	1									80'
TSB-5-85	10/31			X	Center area, pipe end	1									85'
TSB-6-5	10/31			X	North of oil well	1									5'
TSB-6-10	10/31			X	North of oil well	1			X						10'
TSB-6-15	10/31			X	North of oil well	1									15'
TSB-6-20	10/31			X	North of oil well	1									20'
TSB-6-25	10/31			X	North of oil well	1									25'
TSB-6-30	10/31			X	North of oil well	1			X						30'

Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*
[signature]	11/1/85 10:25				
(Printed) Edward Kane		(Printed)	(Printed)		(Printed)

Relinquished by: *(Signature)*	Date / Time	Received for Laboratory by: *(Signature)*	Date / Time	Remarks
		[signature]	11/1/85 10:20	
(Printed)		(Printed) Schmeller		

Distribution: Original Plus One Accompanies Shipment (white and yellow); Copy to Coordinator Field Files (pink).

TRC Environmental Consultants, Inc.

CHAIN OF CUSTODY RECORD

PROJECT NO.	PROJECT NAME	PARAMETERS	
6700-PJ3-03	Turner - Santa Fe Springs		3665

SAMPLERS: (Signature) Jack W. Mahler (Printed) Jack W. Mahler

FIELD SAMPLE NUMBER	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	418.1	8080	8240	Cat. 1 TPH BTEX				REMARKS
TSB-S-90'	11/1	12:30			Turner Soil Boring S - 90'	1								HOLD
TSB S-100'	11/1	12:45			" " " " 100'	1								HOLD
TSB-S-110'	11/1	1:08			" " " " 110'	1			X					24 Hr
Excavation 3-1.5'	-2'	—			Excavation 3: 1.5' - 2.0'	1	X	X						24 Hr
" 3-4.5'	11/1	8:20			" 3-4.5'	1								HOLD
" 8-5'	11/1	11:00			" 8-5'	1								HOLD
" 9-6'	11/1	12:15			" 9-6'	1	X	X						24 Hr
" 9-9'	11/1	12:45			" 9-9'	1	X							HOLD
" 11-7'	11/1	2:50			" 11-7'	1				X				24 Hr

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
(Printed) FAULK		(Printed)	(Printed)		(Printed)

Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks
(Printed)		(Printed)	11/2 1:55	

Distribution: Original Plus One Accompanies Shipment (white and yellow); Copy to Coordinator Field Files (pink).

[redacted] Envi[redacted]ntal Consultants, Inc.

CHAIN OF CUSTODY RECORD

PROJECT NO.	PROJECT NAME		PARAMETERS	No. 3664
6700-P23-03	[illegible]			

SAMPLERS: *(Signature)* [signature]

(Printed) [illegible]

FIELD SAMPLE NUMBER	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	Gasoline	Diesel	Oil					REMARKS
TMB-1-5'	11-6-89	745		X	West of Waste DST	1								Hold
TMB-1-10'	"	800		X	"	1								Hold
TMB-1-15'	"	805		X	"	1								Hold
TMB-1-20'	"	815		X	"	1	X	X						24 Hr
TMB-1-25'	"	820		X	"	1								Hold
TMB-1-30'	"	830		X	"	1								Hold
TMB-2-5'	"	910		X	[illegible]	1								Hold
TMB-2-10'	"	915		X	"	1								Hold
TMB-2-15'	"	925		X	"	1			X					24 Hr
TMB-2-20'	"	930		X	"	1								Hold
TMB-2-25'	"	935		X	"	1			X					24 Hr
TMB-2-30'	"	950		X	"	1								Hold

Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*
[signature]					
(Printed) Jim S[illegible]		*(Printed)*	*(Printed)*		*(Printed)*

Relinquished by: *(Signature)*	Date / Time	Received for Laboratory by: *(Signature)*	Date / Time	Remarks
		[signature]	11-7-89 / 10:50	
(Printed)		*(Printed)* Schr[illegible]		

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TRC Environmental Consultants, Inc.

CHAIN OF CUSTODY RECORD

Page 3 of 4

3656

PROJECT NO.	PROJECT NAME
6700 P23 03	Turner SFS

SAMPLERS: *(Signature)* [illegible] (Printed) Michael Siegel

FIELD SAMPLE NUMBER	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	Parameter	REMARKS
TMB-5-20'	11-6	210		X	Between RR - South	1	X	24 Hr
TMB-6-5	"	230		X	North of TMB-5	1		Hold
TMB-6-10'	"	235		X	"	1	X	24 Hr
TMB-6-15'	"	240		X	"	1	X	24 Hr
TMB-7-5	"	250		X	North of TMB-6	1		Hold
TMB-7-10'	"	255		X	"	1	X	24 Hr
TMB-7-15'	"	305		X	"	1		Hold
TMB-8-5'	"	325		X	North of TMB-7	1		Hold
TMB-8-10'	"	335		X	"	1	X	24 Hr
TMB-8-15'	"	340		X	"	1		Hold
TMB-9-5'	"	355		X	[illegible]	1	X	24 Hr
TMB-9-10'	"	400		X	"	1		Hold

Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*
(Printed)		(Printed)	(Printed)		(Printed)

Relinquished by: *(Signature)*	Date / Time	Received for Laboratory by: *(Signature)*	Date / Time	Remarks
		[signature]	11-7-86 1050	
(Printed)		(Printed) Schindler		

Distribution: Original Plus One Accompanies Shipment (white and yellow); Copy to Coordinator Field Files (pink).

APPENDIX C

Permits for Tank Removals

TRC

CITY OF SANTA FE SPRINGS
FIRE DEPARTMENT
FIRE ENVIRONMENTAL PROTECTION BUREAU
11300 GREENSTONE AVE., SANTA FE SPRINGS, CA 90670
(213) 944-9713

PLAN REVIEW/FIELD INSPECTION/SPECIAL ACTIVITIES APPLICATION

Name of Facility S/E Cor of Bloomfield/Lakelad 11102 Bloomfield
Project Address 11102 Bloomfield
Architect/Engineer telephone
Address 714-355-5624
Contractor Mayfield Ent Inc DBA Roofing telephone 434-2115
Address 14879 Whittram Ave Fontana, Ca. 92335

LICENSED CONTRACTOR DECLARATION:
I hereby affirm that I am licensed under provisions of Charter 9 (commencing with section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

License Class C61 D40 License No. 425319
Signature Jason C Mayfield Date 1/31/90

OWNER BUILDER DECLARATION
I hereby certify that I have read this application and state that the above information is correct. I agree to comply with all city and county ordinances and state laws relating to construction, and hereby authorize representatives of this city to enter upon the above mentioned property for inspection purposes.

Signature Date City License

TYPE OF CONSTRUCTION CIRCLE ONE			
NEW	ADD	ALTERATION	REPAIR
CONVERSION	DEMOLISH	OTHER	

DESCRIPTION OF WORK

(X)	DESCRIPTION	FEE	(√)	DESCRIPTION	FEE
	PLAN REVIEW AND FIELD INSPECTIONS			On-site Fire Hydrant System	
	Preliminary Plan Review			Drying Ovens	
	Fire Alarm Systems			High-Piled Combustible Stock (Racks/Draft Curtains/Hose Racks/Smoke Vents)	
	Fire Extinguishing System			Tents and Air Support Structure	
	FIRE SPRINKLER SYSTEMS			Mechanical Refrigeration System	
	a. Up to 20,000 sq. ft. per floor			Flow Coating Equipment	
	b. 20,001 to 50,000 sq. ft. per floor			Tenant Improvements (Structural)	
	c. 50,001 to 100,000 sq. ft. per floor			Tenant Improvements (Auto. Sprinklers)	
	d. More than 100,000 sq. ft. per floor			Soil Venting Systems	
	Flammable/Combustible Liquid Room			Gas Detection System	
	Compressed Gas System			Sprinkler System (20 heads or less)	
	Flammable/Combustible Liquid Tank (U/G & A/G)			SPECIAL ACTIVITIES AND EVENTS -- ONE TIME PERMITS	
	L.P.G. Tanks			Hydrant Flow Request	
	Paint Spray Booths			U/G TANK REMOVAL	
	Dip Tank		√	a. First Tank	200
	Dust Collection System		√	b. Each Additional Tank X 3	300
	Standpipes (Wet/Dry)			Abandonment/Reabandonment of Oil Wells (Including Capping)	
	NEW CONSTRUCTION PLAN REVIEW			Monitoring Wells	
	a. Up to 20,000 sq. ft. per floor			Standby Fire Watch	
	b. 20,001 to 50,000 sq. ft. per floor			Fire Department Equipment With Crew	
	c. 50,001 to 100,000 sq. ft. per floor			Request Inspection	
	d. More than 100,000 sq. ft. per floor			Risk Management Prevention Program (RMPP) 4 hour minimum	
	Other			Other	

MAKE CHECKS PAYABLE TO THE CITY OF SANTA FE SPRINGS

TOTAL DUE 500

Nikitin 1-31-90
INSPECTOR DATE

01-[illegible] [illegible]

LOS ANGELES COUNTY
DEPARTMENT OF PUBLIC WORKS
CLOSURE REPORT REQUIREMENTS

A closure report shall be submitted to the Los Angeles County Department of Public Works, Waste Management Division, P.O. Box 1460, Alhambra, CA 91802 containing:

1. File number of facility and closure permit number.
2. Plot plan to scale showing locations of tanks, sampling points, buildings, adjacent streets and north arrow.
3. Description of methods for obtaining, handling and transporting samples.
4. Time and date samples were obtained.
5. If borings were established, boring logs certified by a CA Registered Geologist, CA Certified Engineering Geologist or CA Registered Civil Engineer with sufficient experience in soils.
6. Chain-of-custody documentation initiated by person obtaining sample through person at State Department of Health Services certified laboratory.
7. Disposal destination of tanks and evidence of legal disposal.
8. Analysis results by a State certified laboratory submitted on laboratory letterhead showing analysis date, methods of extraction and methods of analysis.
9. Documentation as to depth of groundwater at facility.
10. Manifests to documentation hazardous waste disposal of any removed soil and rinseate.
11. Any observations of site contamination.
12. Remedial action plan to mitigate contamination.
13. Report to be signed by CA Registered Geologist, CA Certified Engineering Geologist or CA Registered Civil Engineer with sufficient experience in soils.

Signature [signature] Date 1-25-90

cg2/CLOSURE

Site Assessment regarding our letter dated October 8, 1986 should be addressed to before this site can be considered closed.

LICATION FOR CLOSURE
AZARDOUS MATERIALS UNDERGROUND STORAGE
UNTY OF LOS ANGELES-DEPARTMENT OF PUBLIC WORKS
STE MANAGEMENT DIVISION
S. FREMONT AVENUE
LHAMBRA, CALIFORNIA 91803-1331

Pg 61 85

Permit 6680 B
File 6657 R/C 14
Fee $ 255
Check [Y] Cash [ ]

FX-6: Personal

WNER: Name GEORGE AND MARYBETH WALKER Phone
Mailing Address P.O. BOX 416 City NORWALK State CA Zip 90650

ACILITY:
Occupant Name EMPTY LAND 40 A/C Phone NONE
Site Address 11102 BLOOMFIELD AVE City SANTA FE SPRINGS Zip 90670
Mailing Address 1200 QUAIL STREET SUITE 160 City NEWPORT BEA State CA Zip 92660
Contact Person SUSAN DROHAN Title CEO

NTRACTOR [X], complete below: OWNER/OPERATOR AS CONTRACTOR [ ]
Name J. D. BRODING & SON INC Phone 714-355-5624
State License No. 425319 Class C12 C61/40

LOSURE REQUESTED:
[X] PERMANENT, TANK REMOVAL (See Conditions A and C Attached)
How many underground tanks will remain after this closure? 0
[ ] PERMANENT, CLOSURE IN PLACE (See Conditions A and D Attached)
[ ] TEMPORARY (See Conditions A and B Attached)

NK DESCRIPTION: PLOT PLAN ATTACHED [ ] EXISTING HMUSP NO.

Tank No.	Tank Mat'l.	Age	Capacity	Materials Stored (Past/Present)
1	METAL	UNK	4000	GASOLINE UL
2	"	"	6000	GASOLINE UL
3	"	"	3000	GASOLINE UL
4	"	"	10,000	GASOLINE UL

MPLETE THE FOLLOWING:

	YES	NO
Has an unauthorized release ever occurred at this site?	[ ]	[X]
Have structural repairs ever been made to these tanks?	[ ]	[X]
Will new underground tanks be installed after closure?	[ ]	[X]
Will any wells, including monitoring wells, be abandoned?	[ ]	[X]

NOTICE: CONTAMINATED TANKS AND RESIDUES THAT MAY BE LEFT IN TANKS TO BE CLOSED AY BE A HAZARDOUS WASTE WHICH MUST BE TRANSPORTED AND DISPOSED OF PURSUANT TO HAPTER 6.5, CALIFORNIA HEALTH & SAFETY CODE. FAILURE TO COMPLY MAY BE PROSECUTED AS A FELONY VIOLATION.

By signature below the applicant certifies that all statements and disclosures above are true and correct and that they have read and agree to abide by this permit and all conditions and limitations attached.

Applicant's Signature [signature] Date 1-29-90
(Print Name) DARREN EVANS Phone 714 355 5624
Owner [ ] Operator [ ] Contractor [✓]

TO BE COMPLETED BY THE DEPARTMENT OF PUBLIC WORKS

PURSUANT TO SECTION 11.80.0708, LOS ANGELES COUNTY CODE, PERMISSION IS HEREBY GRANTED TO PROCEED WITH THE CLOSURE DESCRIBED ABOVE SUBJECT TO THE ATTACHED CONDITIONS AND LIMITATIONS [X]. THIS PERMIT EXPIRES 180 DAYS FROM THE DATE BELOW.

T.A. TIDEMANSON
Director of Public Works

[signature] 1/29/90

CLOSURE PERMIT SUPPLEMENT
HAZARDOUS MATERIALS UNDERGROUND STORAGE
LOS ANGELES COUNTY
DEPARTMENT OF PUBLIC WORKS
WASTE MANAGEMENT DIVISION
900 S. FREMONT AVENUE
ALHAMBRA, CA 91803

Closure Pemrit No. 6680 B
File No. I- 6657-1 H

To satisfy the permanent closure requirements for underground storage tanks previously storing hazardous materials, site integrity must be demonstrated by the analysis of soil samples and, if applicable, groundwater samples as outlined below. These requirements are in addition to the conditions listed on the Application for closure or contained in an approved Closure Plan.

1. Samples shall be obtained at the sampling points (SP) indicated on the attached plot plan.

2. For each SP, samples shall be obtained at the following depths:

SP	Depth(s)	Compounds	Analysis Method
1A, 1B, 2A, 2B, 3A, 3B, 4A, 4B	2-4' below tank invert	TPH + BTXE	8015(M) + 8020
1 sample every 20' of pipeline [illegible] plan	2-4' below piping, pipeline [illegible] at	"	"

3. All soil samples obtained shall be undisturbed and unexposed prior to analysis. The method used to obtain the samples and the date of sampling shall be included in the final report.

4. If groundwater is encountered during sampling, a groundwater monitoring well shall be established at the most downgradient sampling point. The well shall be developed by removing a minimum of four well volumes and a groundwater sample shall be obtained and analyzed.

5. The analysis results for all soil samples shall be expressed in milligrams per kilogram (mg/kg). Analysis results for groundwater samples shall be expressed in parts per billion (ppb).

6. Analysis results shall be reported on laboratory letterhead and shall include the following information: a) The date the analysis was conducted; b) The method of extraction (if applicable); c) The method of analysis.

7. All soil/groundwater samples obtained shall be handled and transported to laboratory in strict accordance with applicable EPA regulations utilizing chain-of-custody procedures. Chain-of-custody documentation shall be included in the final report.

8. If the soil/groundwater analysis indicates undefined contamination at the facility, additional sampling shall be required to define the vertical and lateral extent present.

9. A final report that contains all of the above required information shall be submitted to the office above within one (1) month from the sampling date or 180 days from the date of this permit, whichever earlier.

ATTENTION CONTRACTOR

NOTIFICATION REQUIREMENTS

Pursuant to Los Angeles County Code, Section 11.78.045, and the Conditions and Limitations of the attached Hazardous Materials Underground Storage Closure Permit, you are required to complete ALL of the agency notifications indicated below within the time period specified prior to commencement of work on this closure.

[X] 72 HOURS - DEPARTMENT OF PUBLIC WORKS INDUSTRIAL WASTE ENGINEERING INSPECTOR:

>>Unless otherwise noted DPW inspectors are available at the following offices between 8:00 a.m. and 9:30 a.m. ONLY.<<

[X] BELLFLOWER DISTRICT - (213) 804-2584
16600 Civic Center Dr., Bellflower, CA 90607

[ ] CENTINELA VALLEY REGION - (213) 534-4862
24320 S. Narbonne Ave., Lomita, CA 90717

[ ] LENNOX DISTRICT - (213) 419-5650
4353 Lennox Blvd., Lennox, CA 90304

[ ] SAN GABRIEL VALLEY DISTRICT - (818) 574-0962
1245 S. Baldwin Ave., Arcadia, CA 91006

[ ] EAST LOS ANGELES DISTRICT - (213) 260-3466
5141 E. Pomona Blvd., Los Angeles, CA 90022

[ ] SAN DIMAS REGION - (818) 339-6281
201 E. Bonita Ave., San Dimas, CA 91773

[ ] NEWHALL REGION - (805) 253-7207
23757 W. Valencia Blvd., Santa Clarita, CA 91355

[X] 24 HOURS (OR AS REQUIRED) - LOCAL FIRE DEPARTMENT FIRE PREVENTION INSPECTOR:

[X] City of Santa Fe Springs

[ ] Los Angeles County Fire Department

[X] 24 HOURS - SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

(818) 572-6195

FAILURE TO PROVIDE NOTICE AS REQUIRED ABOVE MAY RESULT IN PERMIT REVOCATION, ADDITIONAL SITE ASSESSMENT REQUIREMENTS AND/OR ADMINISTRATIVE PENALTIES AS PROVIDED BY LAW.

CLOSENOTE

APPENDIX D

Manifest Documents

TRC

State of California—Health and Welfare Agency
Form Approved OMB No. 2050—0039 (Expires 9-30-91)
Please print or type. *(Form designed for use on elite (12-pitch typewriter).*

Department of Health Services
Toxic Substances Control Division
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CAC002H2993 | Manifest Document No. 00001 | 2. Page 1 of 1 | Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
Georgia-Mary Beth Walker
P.O. Box 486 Norwalk CA. 90650
4. Generator's Phone (714) 355-5624

A. State Manifest Document Number: 90158718
B. State Generator's ID:

5. Transporter 1 Company Name: Crosby + Overton | 6. US EPA ID Number: CAD047448170 | C. State Transporter's ID | D. Transporter's Phone: 213 436-9723

7. Transporter 2 Company Name | 8. US EPA ID Number | E. State Transporter's ID | F. Transporter's Phone

9. Designated Facility Name and Site Address
Gibson Oil and Refining Co.
3121 Standard St
Bakersfield
10. US EPA ID Number: CAD980883177 | G. State Facility's ID | H. Facility's Phone: 805 327-0417

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. Waste Combustible liquid NOS NA 1993	001	T	01400	G	State 241 / EPA/Other None
b.					State / EPA/Other
c.					State / EPA/Other
d.					State / EPA/Other

J. Additional Descriptions for Materials Listed Above
Gas, Diesel and water

K. Handling Codes for Wastes Listed Above
a. 01 | b. | c. | d.

15. Special Handling Instructions and Additional Information
Gloves, Goggles

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: James C. Mayfield for Geo & Mary Beth Walker | Signature: James Mayfield | Month Day Year: 02 01 90

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Claude Wilson | Signature: Claude Wilson | Month Day Year: 02 01 90

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name | Signature | Month Day Year

DHS 8022 A (1/88)
EPA 8700—22
(Rev. 9-88) Previous editions are obsolete.

Do Not Write Below This Line

Blue: GENERATOR SENDS THIS COPY TO DOHS WITHIN 30 DAYS

State of California—Health and Welfare Agency
Form Approved OMB No. 2050—0039 (Expires 9-30-91)
Please print or type. *(Form designed for use on elite (12-pitch typewriter).*

Department of Health Services
Toxic Substances Control Division
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CAL000242993 Manifest Document No. 00001
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address: George + Mary Beth Walker, P.O. Box 466 Norwalk CA. 90650
4. Generator's Phone: 714 355-5624

A. State Manifest Document Number: 90158720
B. State Generator's ID

5. Transporter 1 Company Name: Crosby + Overton
6. US EPA ID Number: CAD047448170
C. State Transporter's ID: 008582
D. Transporter's Phone: 213 436-9703

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address: De Menno Kerdoon, 2000 N. Alameda, Compton
10. US EPA ID Number: CAT080013352
G. State Facility's ID
H. Facility's Phone: 213 537-7100

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. Waste Combustible liquid N.O.S NA 1993	001	TT	04800	G	State 241; EPA/Other None
b.					State; EPA/Other
c.					State; EPA/Other
d.					State; EPA/Other

J. Additional Descriptions for Materials Listed Above: 99.9 water .1 Gas. Gas + water

K. Handling Codes for Wastes Listed Above: a. 01 b. c. d.

15. Special Handling Instructions and Additional Information: Gloves, Goggles

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: James C. Mayfield for Geo & Mary Beth Walker — Signature: James C. Mayfield — Month/Day/Year: 02 01 90

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Bobby Waters — Signature: Bobby Waters — Month/Day/Year: 02 01 90

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name — Signature — Month Day Year

GENERATOR / TRANSPORTER / FACILITY

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550

DHS 8022 A (1/88)
EPA 8700—22
(Rev. 9-88) Previous editions are obsolete.

Do Not Write Below This Line

Blue: GENERATOR SENDS THIS COPY TO DOHS WITHIN 30 DA

TRC Environmental Consultants, Inc.

23361 Madero St. Suite 100
Mission Viejo, CA 92691

(714) 581-6860

LETTER OF TRANSMITTAL

DATE	JOB NO.
March 16, 1990	7014-N23-00

ATTENTION

RE: UST Removal - Liquid Manifests
Walker-Turner Property
Santa Fe Springs, CA
George & Mary Beth Walker
P.O. Box 466
Norwalk, CA 90650

California Department of Health Services
Toxic Substances Control Division
P.O. Box 400, Sacramento, CA 95812-0400

WE ARE SENDING YOU ☒ Attached ☐ Under separate cover via _____ the following items:

☐ Shop drawings ☐ Prints ☐ Plans ☐ Samples ☐ Specifications
☐ Copy of letter ☐ Change order ☒ Hazardous Waste Manifests

COPIES	DATE	NO.	DESCRIPTION
1	2/1/90		Uniform Hazardous Waste Manifest Number 90158718
1	2/1/90		" " " " " 90158719
1	2/1/90		" " " " " 90158720

THESE ARE TRANSMITTED as checked below:

☐ For approval ☐ Approved as submitted ☐ Resubmit_____copies for approval
☐ For your use ☐ Approved as noted ☐ Submit_____copies for distribution
☒ As requested ☐ Returned for corrections ☐ Return_____corrected prints
☐ For review and comment ☐ _____
☐ FOR BIDS DUE _____ 19_____ ☐ PRINTS RETURNED AFTER LOAN TO US

REMARKS These are being forwarded on behalf of our Client

COPY TO _____

SIGNED: Gary D. Glazer

J. D. Brodine & Son Inc.
14879 WHITTRAM AVENUE • FONTANA, CA 92335 • (714) 355-5624

March 13, 1990

Mayfield Enterprises
2521 E. Ocean Blvd.
Long Beach, CA 90803

Job location: 11020 Bloomfield Avenue
Santa Fe Springs, CA

CERTIFICATION OF TANK DISPOSAL

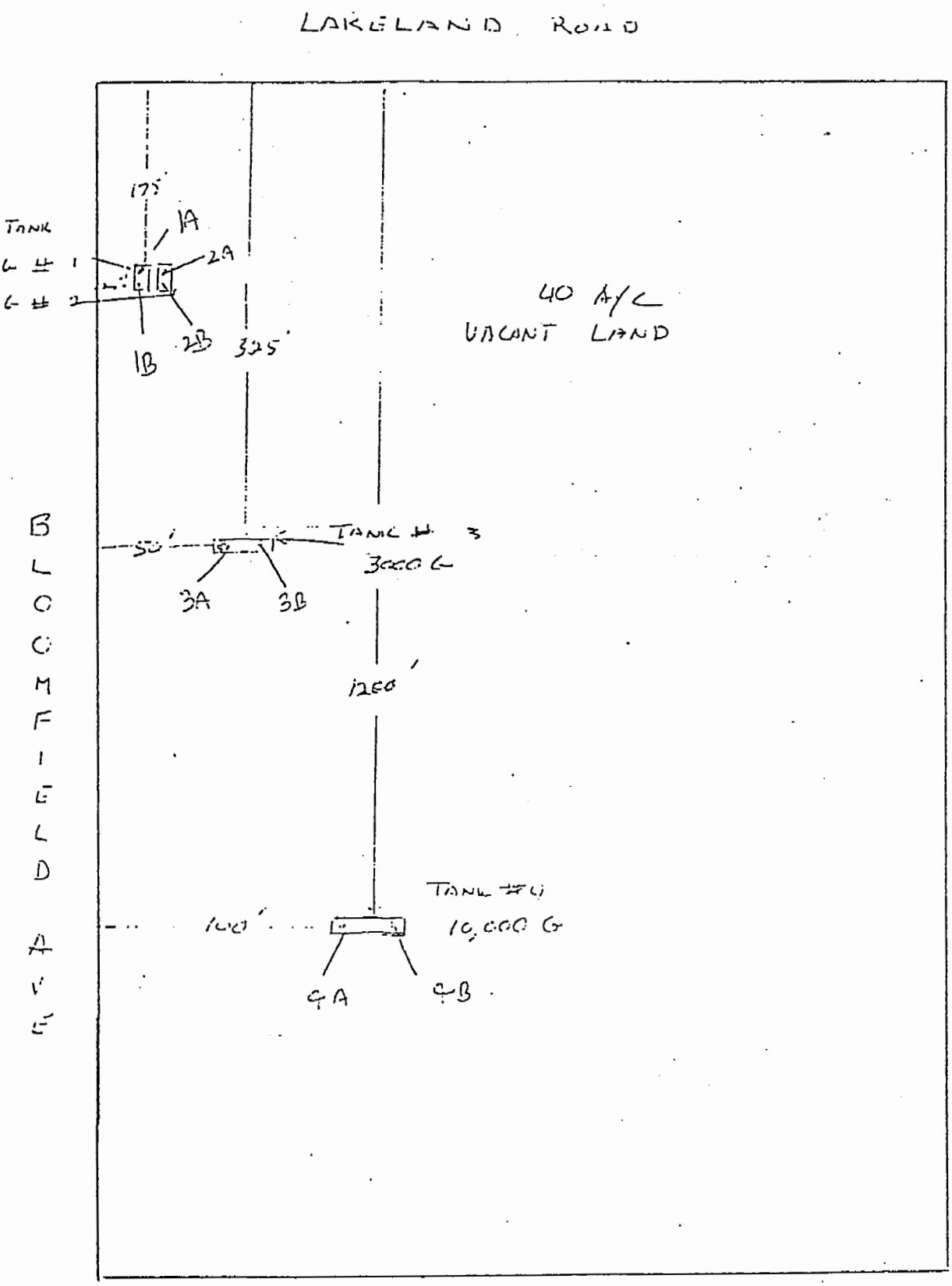
On February 1 & 2, 1990 four (4) tanks were transported from the above location to our facility at 14879 Whittram Avenue Fontana, CA (1-3,000 / 1-4,000 / 1-6,000 / 1-10,000 gallon tank).

The tanks were cleaned on-site then transported to Whittram Avenue where they were cut up for scrap and hauled to a local scrap yard.

Sincerely,

Darron H. Evans
J. D. Brodine & Son, Inc.

DE/mc



4

OWNER GEORGE & MARYBETH KONCKOSZ
P.O. BOX 466
NORWALK CA

SITE
11102 BLOOMFIELD
SANTE FE SPRINGS CA

CONTRACTOR
J.D. BROWNE & SON INC
14529 WHITTRAM AVE
FONTANA, CA
714-355-5229

APPENDIX E

Laboratory Analyses
and
Chain-of-Custody Documentation

TRC

Del Mar Analytical

18102 Sky Park South, Suite F • Irvine, CA 92714
(714) 261-1022 • FAX (714) 261-1228

TRC Environmental Consultants	Client Project ID:	7014-N23	Sampled:	Feb 1, 1990
23361 Madero St., Ste 100		Walker-Santa Fe Springs	Received:	Feb 2, 1990
Mission Viejo, CA 92691	Analysis Method:	EPA 3550/8015	Analyzed:	Feb 8, 1990
Attention: Dean Glazer	First Sample #:	002-0066	Reported:	Feb 9, 1990

TOTAL PETROLEUM FUEL HYDROCARBONS (EPA 8015)

Sample Number	Sample Description Soils	Extractable Hydrocarbons mg/kg (ppm)
002-0066	UST-1-A	N.D.
002-0067	UST-1-B	N.D.

Detection Limits:	5.0

Extractable Hydrocarbons are quantitated against a diesel fuel standard. Hydrocarbons detected by this method range from C7 to C30.
Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL

Gary Steube
Laboratory Director

Del Mar Analytical

18102 Sky Park South, Suite F • Irvine, CA 92714
(714) 261-1022 • FAX (714) 261-1228

TRC Environmental Consultants	Client Project ID:	7014-N23	Sampled:	Feb 1, 1990
23361 Madero St., Ste 100		Walker-Santa Fe Springs	Received:	Feb 2, 1990
Mission Viejo, CA 92691	Analysis Method:	EPA 5030/8020	Analyzed:	Feb 7, 1990
Attention: Dean Glazer	First Sample #:	002-0066	Reported:	Feb 9, 1990

BTEX DISTINCTION (EPA 8020)

Sample Number	Sample Description Soil	Benzene mg/kg (ppm)	Toluene mg/kg (ppm)	Ethyl Benzene mg/kg (ppm)	Xylenes mg/kg (ppm)
002-0066	UST-1-A	N.D.	N.D.	N.D.	N.D.
002-0067	UST-1-B	N.D.	N.D.	N.D.	N.D.
Detection Limits:		0.05	0.05	0.05	0.05

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL

Gary Steube
Laboratory Director

Del Mar Analytical

18102 Sky Park South, Suite F • Irvine, CA 92714
(714) 261-1022 • FAX (714) 261-1228

TRC Environmental Consultants	Client Project ID:	7014-N23	Sampled:	Feb 1, 1990
23361 Madero St., Ste 100		Walker-Santa Fe Springs	Received:	Feb 2, 1990
Mission Viejo, CA 92691	Analysis Method:	EPA 5030/8015/8020	Analyzed:	Feb 7, 1990
Attention: Dean Glazer	First Sample #:	002-0068	Reported:	Feb 9, 1990

TOTAL PETROLEUM FUEL HYDROCARBONS with BTEX DISTINCTION (EPA 8015/8020)

Sample Number	Sample Description Soils	Volatile Fuel Hydrocarbons mg/kg (ppm)	Benzene mg/kg (ppm)	Toluene mg/kg (ppm)	Ethyl Benzene mg/kg (ppm)	Xylenes mg/kg (ppm)
002-0068	UST-2-A	N.D.	N.D.	N.D.	N.D.	N.D.
002-0069	UST-2-B	N.D.	N.D.	N.D.	N.D.	N.D.
002-0070	UST-3-A	N.D.	N.D.	N.D.	N.D.	N.D.
002-0071	UST-3-B	N.D.	N.D.	N.D.	N.D.	N.D.
002-0072	UST-4-A	N.D.	N.D.	N.D.	N.D.	N.D.
002-0073	UST-4-B	24	0.38	0.55	0.77	3.2
Detection Limits:		**1.0**	**0.05**	**0.05**	**0.05**	**0.05**

Volatile Fuel Hydrocarbons are quantitated against a gasoline standard. Hydrocarbons detected by this method range from C6 to C15.
Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL

Gary Steube
Laboratory Director

Del Mar Analytical
18102 Sky Park South, Suite F · Irvine, CA 92714
(714) 261-1022 · FAX (714) 261-1228

QC DATA REPORT

ANALYSIS: EPA Method 8015, Soils

DATE OF ANALYSIS: 02/07/90

SAMPLE NUMBER: 0020308

Analyte	R1	SP	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppm	ppm	ppm	ppm	%	%	%	%
Hydrocarbons	0	3	2.6	2.2	86.7	73.3	16.7	80.0

Definition of Terms:

R1 ..... Result of Sample Analysis

SP..... Spike Concentration added to Sample

MS ..... Matrix Spike Result

MSD ..... Matrix Spike Duplicate Result

PR1 ..... Percent Recovery of MS; (MS-R1) / SP x 100

PR2 ..... Percent Recovery of MSD; (MSD-R1) / SP x 100

RPD ..... Relative Percent Difference; ((MS-MSD/(MS+MSD)/2)) x 100

Del Mar Analytical

Gary Steube
Laboratory Director

Jeanine Salustri
Quality Assurance Officer

Del Mar Analytical

18102 Sky Park South, Suite F • Irvine, CA 92714
(714) 261-1022 • FAX (714) 261-1228

QC DATA REPORT

ANALYSIS: EPA Method 8015 by Extractions, Soils

DATE OF ANALYSIS: 02/07/90

SAMPLE NUMBER: 0020357

Analyte	R1	SP	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppm	ppm	ppm	ppm	%	%	%	%
Hydrocarbons	0	100	128	173	128.0	173.0	29.9	150.5

Definition of Terms:

R1 ..... Result of Sample Analysis

SP..... Spike Concentration added to Sample

MS ..... Matrix Spike Result

MSD ..... Matrix Spike Duplicate Result

PR1 ..... Percent Recovery of MS; (MS-R1) / SP x 100

PR2 ..... Percent Recovery of MSD; (MSD-R1) / SP x 100

RPD ..... Relative Percent Difference; ((MS-MSD/(MS+MSD)/2)) x 100

Del Mar Analytical

Gary Steube
Laboratory Director

Jeanine Salustri
Quality Assurance Officer

TRC Environmental Consultants, Inc.

CHAIN OF CUSTODY RECORD

PROJECT NO.	PROJECT NAME	PARAMETERS	ST- 3549
014-N23	Waller-Turner Santa Fe Springs		

SAMPLERS: (Signature) George D. Glazer (Printed) George D. Glazer

FIELD SAMPLE NUMBER	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	Diesel (8015 Mod.)	Gasoline (8015 Mod.)							REMARKS
															Depth Below Tank Base
ST 1 - A	2/1			✓	Tank 1 North End		X								.5'-1'
ST 1 - B				✓	Tank 1 - South End		X								.5'-1'
ST 2 - A				✓	Tank 2 - North End			X							1'
ST 2 - B				✓	Tank 2 South End			X							1'
ST 3 - A				✓	Tank 3 - West End			X							1'
ST 3 - B				✓	Tank 3 - East End			X							1'
ST 4 - A				✓	Tank 4 - West End			X							1'-2'
ST 4 - B				✓	Tank 4 - East End			X							1'-2'

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
P. Roualty	2/2/90 8:25				
(Printed) P. Roualty		(Printed)	(Printed)		(Printed)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature) Erin Schindler	Date / Time 2/2/90 11:20	Remarks	
(Printed)		(Printed) Schindler			

Distribution: Original Plus One Accompanies Shipment (white and yellow); Copy to Coordinator Field Files (pink).

APPENDIX B

APPENDIX B

SITE CLOSURE LETTER FROM REGULATORY AGENCIES

Department of Toxic Substances Control

Jesse R. Huff, Director
1011 N. Grandview Avenue
Glendale, California 91201

Pete Wilson
Governor

Peter M. Roone
Secretary fc
Environmenta
Protectio

September 8, 1998

Mr. George Bravante
BC Santa Fe Springs, LLC
717 Lido Park Drive, Suite B
Newport Beach, California 92663

Mr. Glenn Anderson
Environmental Associate
Texaco, Inc.
10 Universal City Plaza
Universal City, California 91608-7812

Dear Sir(s):

WALKER PROPERTY SITE (SITE): CERTIFICATION

The Department of Toxic Substances Control (DTSC) has completed its review of the document "Compaction Report-Pad Construction" for the Walker Property Site (Report). The Report adequately describes the remedial activities performed at the Site and is approved. The document "Covenant and Agreement to Restrict Use of Property and Environmental Restriction" was recorded on August 27, 1998. The recorded deed restricts the use of the asphalt cap area at the Site. DTSC therefore, certifies that the remedial action specified in the Remedial Action Plan of June 13, 1997, has been successfully implemented.

Please be advised that according to the Consent Order for the Site, you must comply with the Operation and Maintenance (O&M) requirements specified in the Remedial Design and Implementation Plan. These requirements include an annual inspection and report on the condition of the cap and a five-year review and evaluation of the remedial action.

Thank you for your efforts in remediating the Site. Should you have any questions, please contact Richard Gebert at (818) 551-2859 or me at (818) 551-2822.

Sincerely,

Sayareh Amir
Unit Chief
Site Mitigation Cleanup Operations
Southern California Branch A

cc: Ms. Pam Andes
Allen, Matkins, Leck, Gamble & Mallory, LLP
18400 Von Karman, Fourth Floor
Irvine, California 92612-1597

Mr. Trevor Santochi
Avalon Environmental Associates
20 Corporate Plaza
Newport Beach, California 92660

D

REMEDIAL ACTION CERTIFICATION FORM

---

1. Site Name and Location: (Street address, County, City and Assessor's parcel number)

   Walker Property (the Site)
   Southeast corner of Lakeland and Bloomfield Avenues
   Santa Fe Springs, California 90670
   Los Angeles County

   A. List any other names that have been used to identify the site: Rothschild Oil Site

   B. Assessor's Parcel Number:
   8026-001-042

2. Responsible Parties:

   Name: Mr. George Bravante
   Firm: BC Santa Fe Springs, LLC
   Address: 717 Lido Park Drive, Suite B
   City: Newport Beach, California 92663
   Phone: (949) 332-1812

   Relationship to Site:
   Current Landowner

   Name: Mr. Glenn Anderson
   Firm: Texaco, Inc.
   Address: 10 Universal City Plaza
   City: Universal City, California 91608-7812
   Phone: (818) 505-2680

   Relationship to Site:
   Former Landowner

3. Brief Description and History of the Site:

The Site is located at the southeastern corner of Lakeland and Bloomfield Avenues in the city of Santa Fe Springs in Los Angeles County. The 21-acre Site has been used since the 1930s for the storage of crude oil, refined petroleum products, waste oil, and disposal of off-Site oil well drilling fluids.

Removal actions conducted at the Site included:

- installation of a fence and posting of warning signs around the entire perimeter of the property
- removal of 100 ft.^{2} of friable asbestos
- removal of 200 drums containing 40 tons of waste oil, sludge, and soil impacted with polychlorinated biphenyls (PCBs)
- demolition and off-site disposal of above ground storage tanks containing 23,000 gallons of waste oil and sludge

A remedial investigation and feasibility study conducted in 1995 concluded that petroleum hydrocarbons remaining in the subsurface were residues of degraded crude oil and did not pose a threat to human health or the environment and did not require further action. However, soil contaminated with PCBs in the northwest portion of the Site was addressed in the feasibility study and capping was recommended as the remedial alternative.

In the Remedial Action Plan approved in 1997, an asphaltic cap covering the PCB impacted soil in the northwest part of the Site was chosen as the remedial action. The asphaltic concrete cap was installed in June, 1998. The area of the cap is approximately 100 feet by 160 feet. A deed restriction limiting the area underneath the cap to industrial usage was recorded on August 27, 1998.

4. Type of Site:

Included on Bond Expenditure Plan?
Yes __X__ No _____

RCRA-Permitted Facility ____ Bond - funded ____

RCRA Facility Closure ____ R.P. - funded __X__

5. Size of Site: (Based on Expenditure Plan definition of size)

Small ____ Medium __X__ Large ____ Extra Large ____

6. Dates of Remedial Action:

Installation of a permanent asphalt cap
a. Initiated __6/15/1998__ b. Completed __6/26/1998__

7. Response Actions Taken on Site:

__X__ Initial Removal or Remedial Action (site inspection/sampling)

Fence and Post
a. Initiated __6/2/1992__ b. Completed __6/29/1992__

Removal of 200 drums of hazardous waste
a. Initiated __8/7/1993__ b. Completed __12/9/1993__

Above ground storage tank decommissioning and waste oil & sludge removal
a. Initiated __11/3/1993__ b. Completed __1/7/1994__

Asbestos removal
a. Initiated __3/7/1994__ b. Completed __3/11/1994__

__X__ Final Remedial Action

_____ RCRA Enforcement/Closure

_____ No Action, further investigation verified that no cleanup action at site was needed

A. Type of Remedial Action: (i.e. excavation and redisposal, on-site treatment)

The Remedial Action at the Site included the installation of a 160 x 100 foot asphalt cap.

B. Estimated quantity of waste associated with the site (i.e., tons/gallons/cubic yards) which was:

1. ___ treated Amount: _____

2. _X_ untreated (capped sites) Amount: 900 cubic yards of PCB impacted soil

3. _X_ removed Amount: 23,000 gallons of waste oil & sludge

Amount: 40 tons of soil impacted with PCBs, metals, waste oil & sludge

Amount: 100 sq. ft of friable Asbestos

8. Cleanup Levels/Standards

a. What were the cleanup standards established by the

Department of Toxic Substances Control (Department) pursuant to the final RAP or workplan (if cleanup occurred as the result of a removal action (RA) or interim remedial measures (IRM) prior to development of a RAP)?

An asphalt cap was placed over PCB impacted soil which was left in place.

Was the specified cleanup standard met? Yes __X__ No _____

9. Department of Toxic Substances Control Involvement in the Remedial Action

A. Did the Department order the Remedial Action?
Yes __X__ No _____ Date of Order __10/26/1992__

B. Did the Department review and approve (check appropriate action and indicate date of review/approval if done);

__X__ Sampling & Analysis Procedures Date __2/4/1998__

__X__ Health & Safety Protections Date __2/4/1998__

__X__ Removal/ Disposal Procedures Date __2/4/1998__

__X__ Remedial Action Plan Date __6/13/1998__

C. If site was abated by a responsible party, did the Department receive a signed statement from a licensed professional on all Remedial Action?

Yes __X__ No _____ Dates (from) 6/15/1998 (to) 6/26/1998

D. Did a registered engineer or geologist verify that acceptable engineering practices were implemented?

Yes __X__ No _____ Dates (from) 6/15/1998 (to) 6/26/1998

E. Did the Department confirm completion of all Remedial Action?

Yes X No ____ Date of verification 9/8/1998
(i.e. manifest, sampling, demonstrated installation and operation of treatment)

F. Did the Department (directly or through a contractor) actually perform the Remedial Action?

Yes _____ No X Name of Contractor: _____

G. Was there a community relations plan in place?
Yes X No _____

H. Was a remedial action plan developed for this site?
Yes X No _____

I. Did the Department hold a public meeting regarding the draft RAP?
Yes _____X_____ No _____

J. Were public comments addressed?
Yes X No ___

Date of the Department analysis and response: _____

K. Are all the facts cited above adequately documented in the Department files? Yes X No _____
if no, identify areas where documentation is lacking

_____

_____

10. EPA Involvement in the Remedial Action:

A. Was the EPA involved in the site cleanup? Yes ____ No X

B. If yes, did the EPA concur with all remedial actions?
Yes ____ No ____

11. Other Regulatory Agency Involvement in the Cleanup Action:

Agency:	Activity:
X RWQCB	Board has oversight of the "Powerine Section", a 2 acre portion of the Site in the southwestern part. Also, the Board was notified at important milestones.
____ ARB	_____
____ CHP	_____
____ Caltrans	_____
____ Other	_____

12. Post-Closure Activities:

A. Will there be post-closure activities at this site? (e.g. Operation and Maintenance) Yes X No ____

B. Have post-closure plans been prepared and approved by the Department? Yes X No ____

C. What is the estimated duration of post-closure (including operations and maintenance) activities? 30 years

D. Are deed restrictions proposed or in place? Yes X No ___

If "yes" have deed restrictions been recorded with the County recorder? Yes X No ___ Date 8/27/1998

If "no", who is responsible for assuring that the deed restrictions are recorded? _____

Who is the Department contact? Richard Gebert (818) 551-2859
Name/Phone Number

E. Has cost recovery been initiated? Yes X No ____

If yes, amount received $ 253,481.25 ; 77.5 % of DHS costs.

F. Were local planning agencies notified of the cleanup action? Yes ___X___ No _____ If yes, the name and address of agency:

Mr. Andrew Lazaretto, Redevelopment Consultant
City of Santa Fe Springs
11710 Telegraph Road, Santa Fe Springs, CA 90670-3658

13. Expenditure of Funds and Source:

(Information to be supplied by Toxic Accounting Unit.)
Funding Source and amount expended:

_____ HWCA $ _____ HSA $ _____
_____ HSCF $ _____ RCRA $ _____
_____ R.P. $ 2,500,000.00
_____ Federal Cooperative Agreement $ _____
_____ Other (Site Remediation Account) $ _____

14. Certification Statement: Based upon the information which is currently and actually known to the Department,

____ The Department has determined that all appropriate response actions have been completed, that all acceptable engineering practices were implemented and that no further removal/remedial action is necessary.

____ The Department has determined, based upon a remedial investigation or site characterization that the site poses no significant threat to public health, welfare or the environment and therefore implementation of removal/remedial measures is not necessary.

__X__ The Department has determined that all appropriate Removal/remedial actions have been completed and that all acceptable engineering practices were implemented; however, the site requires ongoing operation and maintenance (O&M) and monitoring efforts. The Site will be deleted from the "active" site list following (1) a trial operation and maintenance period and (2) execution of a formal written settlement between the Department and

the responsible parties, if appropriate. However, the site will be placed on the Department's list of sites under going O & M to ensure proper monitoring of long-term cleanup efforts.

15. Additional Comments:

16. Certification of Remedial Action:

I hereby certify that the foregoing information is true and correct to the best of my knowledge.

1. Richard Gebert — 11/20/1998

Richard Gebert, Project Manager — Date
Southern California Cleanup Operations
Branch A

2. Sara Amir — 11/23/1998

Sayareh Amir, Unit Chief — Date
Southern California Cleanup Operations
Branch A

3. H. Saebfar — 11/24/98

Hamid Saebfar, Branch Chief — Date
Southern California Cleanup Operations
Branch A

REQUESTED BY
AND WHEN RECORDED MAIL TO:

ALLEN, MATKINS, LECK, GAMBLE
& MALLORY LLP
18400 Von Karman, Fourth Floor
Irvine, California 92612-1597

Attention: R. Michael Joyce, Esq.

(Space Above For Recorder's Use)

COVENANT AND AGREEMENT TO RESTRICT USE OF PROPERTY AND ENVIRONMENTAL RESTRICTION

This Covenant and Agreement To Restrict Use of Property and Environmental Restriction ("Covenant") is made as of the 11th day of August, 1998 by BC SANTA FE SPRINGS, LLC, a Delaware limited liability company ("Covenantor"), which is the owner of certain real property situated in the City of Santa Fe Springs, County of Los Angeles, State of California, as more fully described in Exhibit "A" attached hereto and incorporated herein by this reference (the "Property") for the benefit of the CALIFORNIA DEPARTMENT OF TOXIC SUBSTANCES CONTROL, as defined in Paragraph 1.1 (the "Department"), with reference to the following facts:

RECITALS:

A. The Property is located in the City of Santa Fe Springs, Los Angeles County, California, as more specifically described in Exhibit "A". The Property is also more specifically described as Los Angeles County Assessor's Parcel No. 8026-001-042. The Property was formerly used as a waste oil storage and transfer facility. The Property was also used for the disposal of oil field drilling waste from the 1920's to 1985.

B. On March 31, 1992, the Department issued its Imminent Or Substantial Endangerment Order and Remedial Action Order HSA I &/SE91/92-009 as amended on October 26, 1992 ("Order").

C. Pursuant to the Order, a Remedial Investigation, including a Base Line Health Risk Assessment, was conducted, in order to define the nature and extent of contamination at the Property. Twenty-nine chemicals of concern were quantitatively evaluated in the risk assessment. The total non-cancer hazard index for all chemicals and all exposure pathways was

significantly less than 1.0 for the future occupational receptor under the reasonable maximum exposure ("RME") scenario. Therefore, there is not a concern for potential chronic adverse health effects at the Property for future occupational populations. The estimated cancer risk for the future occupational receptor was 9×10^{-6} (nine in one million) under the RME scenario and, using more typical exposure parameters for the future occupational receptor results, was only 4×10^{-7} (four in ten million). Under the RME scenario, exposure to polychlorinated biphenyls ("PCBs") contributed to approximately ninety-six (96%) of the cancer risk. A Feasibility Study was also prepared, which evaluated the possible remedial alternatives and recommended the most appropriate alternative for the Property. A Remedial Action Plan ("RAP") was submitted for public comment and Department approval. On June 13, 1997, the RAP was approved and adopted by the Department. The RAP required the construction of a cap on soils containing PCBs. The parking lot/cap so constructed is located on a small portion of the Property over the area containing the PCBs depicted on Exhibit "C" attached hereto and described on Exhibit "D" attached hereto, which area of the Property is hereinafter referred to as the "Affected Property".

D. The Department has since determined, based on information available to the Department, that the remedial measures required by the terms of the RAP have been undertaken to the satisfaction of the Department. The Department has further determined that, based on information available to the Department, the Property no longer presents any significant existing or potential hazard to present or future public health or safety, provided that the parking lot/cap constructed in accordance with the RAP is maintained over the Affected Property and certain precautions are taken in connection with any excavation or earth moving activity performed on the Affected Property, and further provided that certain land use restrictions are observed.

E. Pursuant to California Civil Code Section 1471(c), the Department has determined that this Covenant is reasonably necessary to protect present or future human health or safety or the environment as a result of the presence on the land of hazardous materials defined in California Health and Safety Code Section 25260. The Covenantor and the Department therefore intend that the parking lot/cap constructed pursuant to the RAP be maintained and the use of the Property be restricted as set forth in this Covenant. This Covenant shall also serve to provide public notice that the obligation to maintain and repair the parking lot/cap constructed pursuant to the RAP satisfies all requirements of the Order, and that no further remedial action will be required by the Department in connection with the conditions existing on the Property.

ARTICLE I
DEFINITIONS

1.1 Department. "Department" shall mean the California State Department of Toxic Substances Control and shall include its successor agencies, if any.

1.2 Improvements. "Improvements" shall mean all buildings, roads, driveways, regrading, landscaping and paved parking areas, constructed or placed upon any portion of the Property but shall not include any building interior improvements.

1.3 Occupant. "Occupant" shall mean any holder of a leasehold interest in the Property which entitles the leasehold interest holder to the right to occupy all or any portion of the Affected Property. "Occupant" shall not include a person that is a lender as defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. § 9601 et. seq., as it presently exists or may hereafter be amended from time to time.

1.4 Owner. "Owner" shall mean and refer to one or more persons or entities who are, alone or collectively, the record owner of the fee simple title to all or any portion of the Property.

1.5 Excavation. "Excavation" shall mean the drilling or boring of any holes through the parking lot/cap constructed pursuant to the RAP or excavation of earth from below the ground surface of the Affected Property.

1.6 Earth Movement. "Earth Movement" shall mean the movement of earth extracted from below the ground surface from any one location of the Affected Property to any other location of the Affected Property.

1.7 Contaminated Soil. "Contaminated Soil" shall mean soils containing PCBs in concentrations exceeding one milligram per kilogram (1 mg/kg).

1.8 Property. The Property consists of all of the land more particularly described on Exhibit "A" attached hereto and incorporated herein by this reference, and as depicted on Exhibit "B" attached hereto, but shall not include any buildings now existing or to be constructed on the land.

1.9 Order. "Order" shall have the meaning given such term in Paragraph B. of the Recitals set forth above.

1.10 PCBs. "PCBs" shall have the meaning given such term in Paragraph C. of the Recitals set forth above.

1.11 RAP. "RAP" shall have the meaning given to such term in Paragraph C. of the Recitals set forth above.

1.12 City. "City" shall mean the City of Santa Fe Springs, California.

1.13 Affected Property. "Affected Property" shall have the meaning given such term in Paragraph C. of the Recitals set forth above.

1.14 Restrictions. "Restrictions" shall have the meaning given such term in Section 2.1 hereof.

ARTICLE II
EFFECT OF COVENANT

2.1 Restrictions to Run with the Land. This Covenant sets forth, for the mutual benefit of the Property, the Owners and Occupants thereof, the People of the State of California, and the Department, protective provisions, covenants, restrictions, and conditions (collectively referred to as "Restrictions"), upon and subject to which the Property and every portion thereof shall be improved, held, used, occupied, leased, sold, hypothecated, encumbered, and/or conveyed. Each and all of the Restrictions shall run with the land, shall inure to the benefit of, and pass with each and every portion of the Property, and shall apply to and bind the respective successors in interest thereof for the benefit of the Department. Each and all of the Restrictions are imposed upon the entire Property unless expressly stated as applicable only to a specific portion of the Property. Each and all of the Restrictions are imposed pursuant to California Health and Safety Code sections 25222.1, 25355.5 and 25356.1. Each and all of the Restrictions shall run with the land pursuant to said Sections 25222.1, 25355.5 and 25356.1, and California Civil Code section 1471. Each and all of the Restrictions are for the benefit of the Department and shall be enforceable by the Department.

2.2 Concurrence of Owners Presumed. All Owners and Occupants of all or any portion of the Property shall be deemed by their purchase, lease or possession of such Property, to have knowledge of, and be in accord with, the foregoing and to agree for and among themselves, their heirs, successors, and assignees, and the agents and employees, of such Owners, Occupants, heirs, successors, and assignees, that the Restrictions as herein set forth must be adhered to for the benefit of the Department and of future Owners and Occupants and that their interest in the Property shall be subject to the Restrictions contained herein.

2.3 Incorporation Into Deeds and Leases. The Restrictions contained herein, including, but not limited to, the provisions regarding the Department's authority to enforce the Covenant, shall be incorporated by reference in each and every deed and lease of all or any portion of the Property, with the exception that this Paragraph 2.3 shall not be interpreted to require the Restrictions to be incorporated by reference in any lease in which the tenant, under the terms of the lease, would not be deemed an Occupant of the Property.

2.4 Effect of Recitals. The statements set forth in the Recitals are hereby declared to be true and correct.

ARTICLE III
DEVELOPMENT, USE AND CONVEYANCE OF THE PROPERTY

3.1 Restrictions on Use. Covenantor promises to restrict the use of the Property as follows:

3.1.1 The Owner shall at all times maintain or cause to be maintained in good order, condition and repair, the parking lot/cap constructed pursuant to the RAP so as to cover any Contaminated Soil located on the Affected Property. The parking lot/cap will be monitored and maintained after construction is completed in accordance with the

operations and maintenance requirements set forth in the Remedial Design and Implementation Plan to be developed pursuant to the RAP to ensure that a sloped paved surface is maintained at all times at a minimum one percent (1%) grade to effectively facilitate surface water runoff and prevent ponding. Repairs to the paved surface will be made as necessary to assure that the minimum slope is maintained. The paved surface constructed will be periodically inspected for cracks, discontinuities, and ponding of surface water in accordance with the operations and maintenance requirements set forth in the Remedial Design and Implementation Plan to be developed pursuant to the RAP. The side slopes along the perimeter of the paved surface will be inspected for signs of erosion. Repairs to the pavement and the side slopes will be made as necessary to impede infiltration of surface water.

3.1.2 In the event that following the construction of the parking lot/cap any Earth Movement or Excavation is proposed to occur upon any portion of the Affected Property, the Owner or Occupant shall:

A. Notify the Department of such proposed Earth Movement or Excavation thirty (30) days prior to the beginning of such Earth Movement or Excavation;

B. Submit a Soil Management Plan and a Health and Safety Plan to the Department for review and approval prior to conducting any Earth Movement or Excavation. No Earth Movement or Excavation shall be permitted on the Affected Property except in accordance with the Soil Management Plan and the Health and Safety Plan approved by the Department.

C. Any Contaminated Soils brought to the surface by Earth Movement or Excavation shall be managed in accordance with all other applicable provisions of state and federal law.

3.1.3 Neither the Affected Property, nor any portion thereof, shall be used for residential purposes, hospitals for humans, schools for persons under 21 years of age, day-care centers for children, or any permanently occupied human habitation (including hotels or motels which are used as a permanent residence) without the prior written approval of the Department. The Affected Property, and any portion thereof, may be used for industrial or commercial purposes as authorized from time to time by the City, except as specifically prohibited in this Paragraph 3.1.3.

3.1.4 Covenantor agrees that all Owners and Occupants shall grant the Department reasonable right of entry and access to the Property for inspection, monitoring, and other activities consistent with the purposes of this Covenant.

3.2 Conveyance of Property. Within thirty (30) days after the closing of any sale, lease, or other conveyance of all or any portion of the Property, the former Owner (in the case of a sale) or Occupant (in the case of a lease) and the then current Owner or Occupant of the Property or part thereof conveyed shall provide written notice to the Department of the name and

address of all the then Owners and/or Occupants of the Property or part thereof, conveyed. The Department shall not, by reason of the Covenant, have authority to approve, disapprove or otherwise affect any sale, lease, or other conveyance of the Property except as otherwise provided by law. Upon the sale or transfer of the entire interest of the Owner in the Property (including Covenantor), such Owner (including Covenantor) shall be released and relieved of any further liability or obligation under this Covenant. Upon the termination of the leasehold interest of any Occupant in the Affected Property, such Occupant shall be released and relieved of any further liability or obligation under this Covenant.

3.3 Enforcement.

3.3.1 Failure of any Owner or Occupant to comply with any of the requirements set forth in Paragraph 3.1.3 above, shall be grounds for the Department, by reason of the Covenant, to require the Owner or Occupant to discontinue any use of the Property in violation of Paragraph 3.1.3. Failure to observe the Restrictions set forth in Paragraph 3.1 shall be grounds for the Department to pursue any remedy provided by law to enforce the provisions of Paragraph 3.1. Any costs reasonably and necessarily incurred by the Department to enforce the provisions of Paragraph 3.1 shall be recoverable from the Owner or the Occupant of the Property determined in the final disposition of the enforcement action to have failed to observe the Restrictions.

3.3.2 Covenantor shall have no obligation to enforce or to police the observance of the Restrictions set forth herein by other Owners or Occupants of the Property or any portion thereof. This Covenant shall not create any private right of action against Covenantor or any other Owner or Occupant of the Property or any portion thereof.

3.4 Rights of Mortgagees. No breach of any covenant, condition or restriction herein contained, or any enforcement thereof, shall defeat or render invalid the lien of any first mortgage or deed of trust made in good faith now or hereafter executed upon all or any portion of the Property, provided, however, that if any such property is sold under a foreclosure of any mortgage or under the provisions of any deed of trust, any purchaser at such sale and its successors and assigns shall hold any and all property so purchased subject to all of the covenants, conditions and restrictions contained in this Covenant.

ARTICLE IV
VARIANCE TERMINATION AND AMENDMENT

4.1 Variance. Any Owner, or with the Owner's written consent, which shall not be unreasonably withheld, any Occupant of the Property or any portion thereof, may apply to the Department for a written variance from the provisions of this Covenant. Such application shall be made in accordance with Section 25233 of the California Health and Safety Code.

4.2 Termination. Any Owner, or with the Owner's written consent, which shall not be unreasonably withheld, any Occupant of the Property or any portion thereof, may apply to the Department for a termination of the Covenant as it applies to all or any portion of the

Property owned or occupied by the applicant. Such application shall be made in accordance with Section 25234 of the California Health and Safety Code.

4.3 Amendment. This Covenant may be amended from time to time in a writing signed by the Director of the Department or his or her designee, and all of the then Owners of the Property, or any portion thereof, which remains subject to this Covenant. Any such amendment shall be effective only upon the date any such amendment is filed for recording in the official records of the County of Los Angeles, State of California.

4.4 Term. Unless terminated in accordance with Paragraph 4.2 above, by law or otherwise, this Covenant shall continue in effect in perpetuity.

ARTICLE V
EFFECT OF ISSUANCE OF RAP AND IMPLEMENTATION THEREOF

5.1 Effect of Approval of the RAP. By approving the RAP, the Department determined, based on information available to the Department, that the remedial measures required by the RAP would remediate any significant existing or potential hazard to present or future public health or safety from conditions existing on the Property.

5.2 No Further Action Based on Implementation of RAP. The Department subsequently determined, based on information available to the Department, that the remedial measures undertaken in accordance with the RAP have satisfied any significant existing or potential hazard to present or future public health or safety, and provided that the parking lot/cap is maintained and the precautions undertaken pursuant to the terms of this Covenant, there no longer exists any significant existing potential hazard to present or future public health or safety from conditions existing on the Property. Based on the foregoing, the Department has determined that no further action will be required in connection with the conditions existing on the Property.

ARTICLE VI
MISCELLANEOUS

6.1 No Dedication Intended. Nothing set forth herein shall be construed to be a gift or dedication, or offer of a gift or dedication, of the Property or any portion thereof to the general public or for any purposes whatsoever.

6.2 Notices. Whenever any person shall desire to give or serve any notice, demand, or other communication with respect to this Covenant, each such notice, demand, or other communication shall be in writing and shall be deemed effective (i) when delivered, if personally delivered to the person being served or to an officer of a corporate party being served or official of a government agency being served, or (ii) three (3) business days after deposit in the mail if mailed by United States mail, postage paid certified, return receipt requested. Any party may change its address by notice to the other party in the manner set forth above. The following addresses shall be effective as of the date of this Covenant.

Covenantor:	BC Santa Fe Springs, LLC c/o Bravante-Curci Investors, L.P. 717 Lido Park Drive Lido Peninsula Newport Beach, California 92663
Department:	California Department of Toxic Substances Control Statewide Cleanup Operations Division Southern California Branch A 1011 N. Grandview Avenue Glendale, California 91201 Attention: Hamid Saebfar, Chief

6.3 Partial Invalidity. If any portion of the Covenant is determined to be invalid for any reason, the remaining portion shall remain in full force and effect as if such portion had not been included herein.

6.4 Article Headings. Headings at the beginning of each article of this Covenant are solely for the convenience of the parties and are not a part of the Covenant.

6.5 Recordation. This instrument shall be executed by all Owners of the Property and by the Director, California Department of Toxic Substances Control, or his or her designee. This instrument shall be filed by the Covenantor for recording in the Official Records of the County of Los Angeles, State of California within ten (10) days after the Effective Date (defined in Section 6.6 below). Covenantor shall provide the Department a copy of the Covenant marked as received for recording by the County of Los Angeles. Upon receipt of the Covenant marked as recorded, Covenantor shall provide a copy of such document to the Department.

6.6 Effective Date. This Covenant shall be effective upon such date that the Covenant is fully executed by Covenantor and the Department.

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6.7 Counterparts. This Covenant may be executed in counterparts, each of which shall be deemed an original but all of which, when taken together, shall constitute but one and the same instrument.

IN WITNESS WHEREOF, the parties execute this Covenant as of the date set forth above.

BC SANTA FE SPRINGS, LLC,
a Delaware limited liability company

By: Biltmore Advisors, LLC, a
California limited liability company
Managing Partner

By: _____
Name: George Bravante
Its: Managing Member

CALIFORNIA DEPARTMENT OF TOXIC SUBSTANCES CONTROL

By: _____
Hamid Saebfar, Chief
Statewide Cleanup Operations Division
Southern California Branch A

6.7 Counterparts. This Covenant may be executed in counterparts, each of which shall be deemed an original but all of which, when taken together, shall constitute but one and the same instrument.

IN WITNESS WHEREOF, the parties execute this Covenant as of the date set forth above.

BC SANTA FE SPRINGS, LLC,
a Delaware limited liability company

By: Biltmore Advisors, LLC, a
California limited liability company
Managing Partner

By: _____
Name: _____
Its: _____

CALIFORNIA DEPARTMENT OF TOXIC SUBSTANCES CONTROL

By: _____
Hamid Saebfar, Chief
Statewide Cleanup Operations Division
Southern California Branch A

STATE OF California)
) ss.
COUNTY OF Orange)

On August 11, 1998, before me, Susanne Bartlett, a Notary Public in and for said state, personally appeared George Bryant personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument, the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Susanne Bartlett
Notary Public in and for said State

SUSANNE BARTLETT
Commission #1094325
Notary Public — California
Orange County
My Comm. Expires Apr 14,2000

STATE OF _____)
) ss.
COUNTY OF _____)

On _____, before me, _____, a Notary Public in and for said state, personally appeared _____, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument, the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

_____
Notary Public in and for said State

STATE OF _____)
) ss.
COUNTY OF _____)

On _____, before me, _____, a Notary Public in and for said state, personally appeared _____, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument, the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

_____
Notary Public in and for said State

STATE OF CALIFORNIA)
) ss.
COUNTY OF ORANGE)

On August 18, 1998, before me, T MATTHEWS, a Notary Public in and for said state, personally appeared HAMID SACHAR, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument, the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

T Matthews
_____
Notary Public in and for said State

T MATTHEWS
Commission # 1119098
Notary Public — California
Orange County
My Comm. Expires Dec 7, 2000

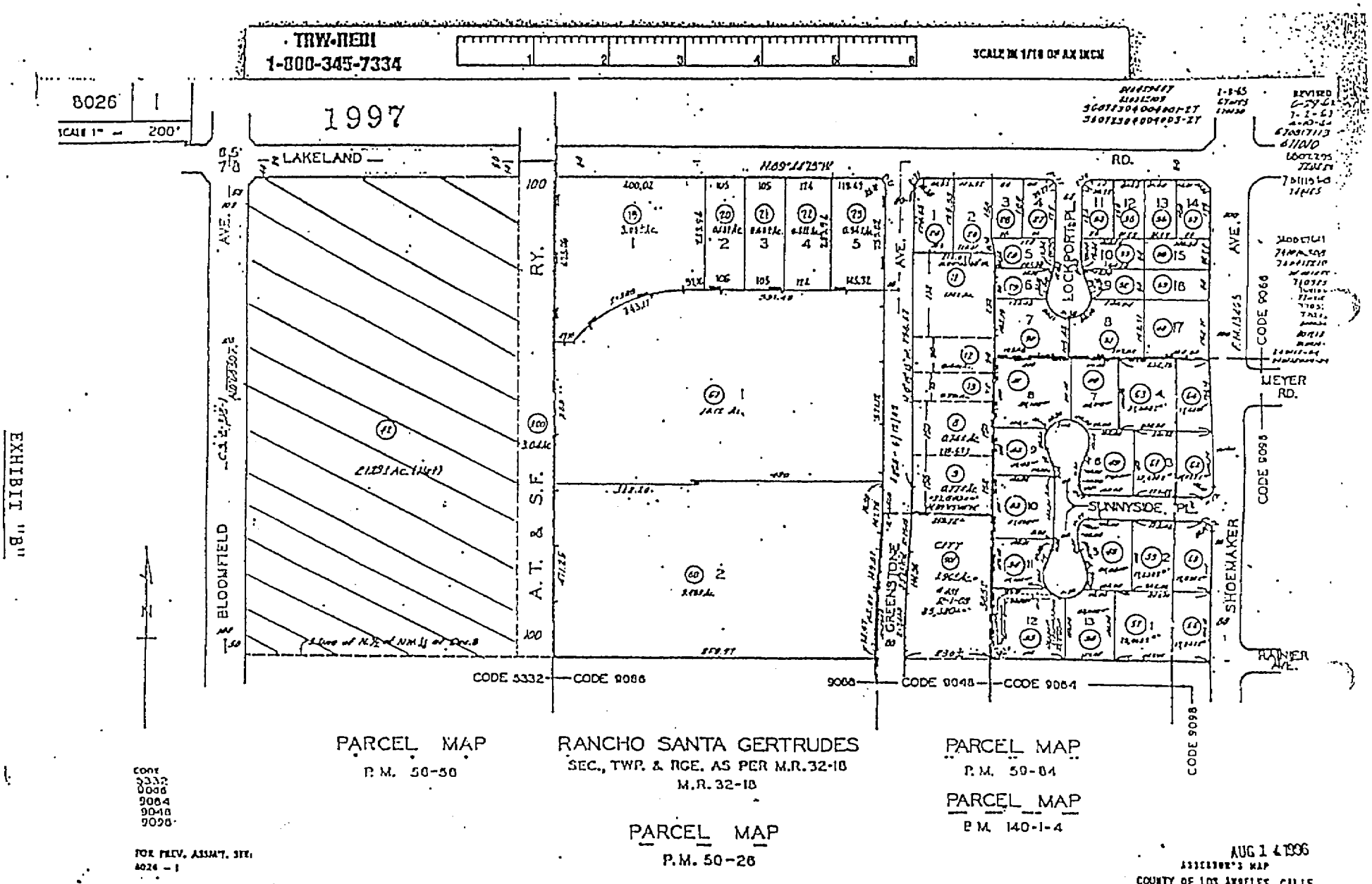
LEGAL DESCRIPTION OF PROPERTY

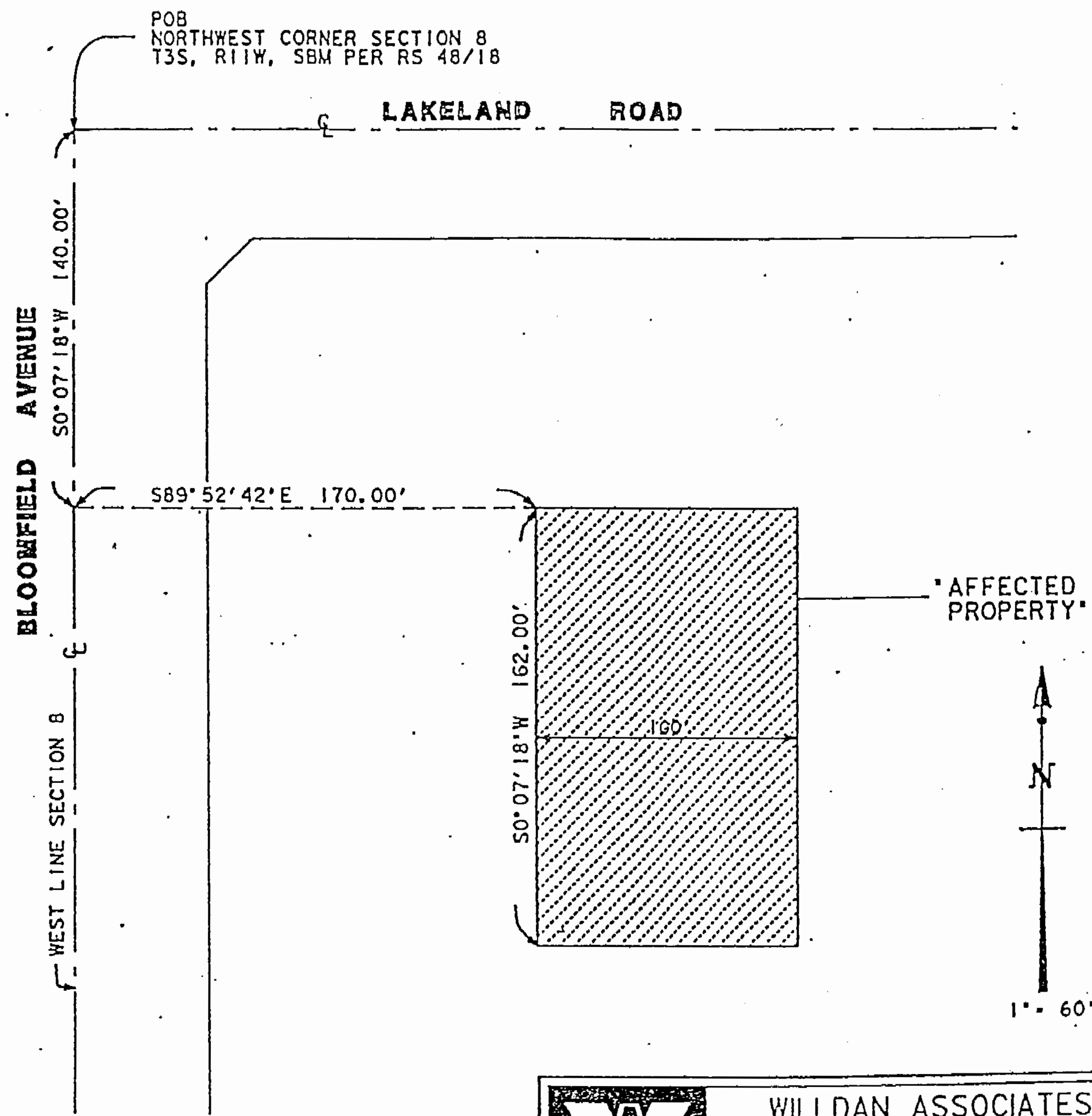
The land referred to herein is situated in the State of California, County of Los Angeles, and is described as follows:

THAT PORTION OF THE NORTH HALF OF THE NORTHWEST QUARTER OF SECTION 8, TOWNSHIP 3 SOUTH, RANGE 11 WEST, SAN BERNARDINO MERIDIAN, IN THE CITY OF SANTA FE SPRINGS, LYING WEST OF ATCHISON, TOPEKA AND SANTA FE RAILROAD RIGHT OF WAY.

EXCEPT THEREFROM ALL OIL, MINERALS AND MINERAL RIGHTS, ORES AND METALS AND OTHER USEFUL AND VALUABLE MINERAL DEPOSITS OF EVERY KIND, CHARACTER AND DESCRIPTION, INCLUDING IN PART ASPHALT, TAR, GAS, OIL, PETROLEUM AND OTHER HYDROCARBONS THAT MAY BE OR HEREAFTER BE FOUND, DEPOSITED, CONTAINED OR DEVELOPED, IN, UPON, FROM OR UNDER, OR THAT MAY BE MINED, EXTRACTED, PUMPED OR WITHDRAWN IN ANYWAY IN, UPON, FROM OR UNDER ALL OR ANY PART OF SAID LAND TOGETHER WITH THE RIGHT TO GO AND BE UPON THE NORTH 500 FEET OF SAID LAND (BUT NOT ANY OTHER PART THEREOF) FOR THE PURPOSE OF EXTRACTING AND REMOVING SAME AS EXCEPTED AND RESERVED BY JULIA M. BAKER, A WIDOW, IN THE DEED RECORDED FEBRUARY 21, 1935 IN BOOK 13278 PAGE 172, OFFICIAL RECORDS, AND REGISTERED FEBRUARY 4, 1935 AS DOCUMENT NO. 1451-D.

EXHIBIT "A"


TRW-REDI
1-800-345-7334
8026 | 1
SCALE 1" = 200'
1997
LAKELAND
BLOOMFIELD AVE.
A. T. & S. F. RY.
LOCKPORT PL.
GREENSTONE AVE.
SUNNYSIDE PL.
SHOEMAKER AVE.
MEYER RD.
RUNNER AVE.
CODE 5332
CODE 9066
CODE 9048
CODE 9064
CODE 9068
CODE 9098
EXHIBIT "B"
PARCEL MAP
P.M. 50-56
RANCHO SANTA GERTRUDES
SEC., TWP. & RGE. AS PER M.R. 32-18
M.R. 32-18
PARCEL MAP
P.M. 50-26
PARCEL MAP
P.M. 50-64
PARCEL MAP
P.M. 140-1-4
FOR REV. ASSMT. SEE
8026 - 1
AUG 1 4 1996
ASSESSOR'S MAP
COUNTY OF LOS ANGELES, CALIF.



WILLDAN ASSOCIATES
ENGINEERS • PLANNERS

SKETCH OF THE "AFFECTED PROPERTY"
DESCRIBED IN EXHIBIT "D"
IN THE CITY OF SANTA FE SPRINGS
COUNTY OF LOS ANGELES
STATE OF CALIFORNIA

SCALE:	1" = 60'	DATE	7-20-98
DRAWN BY:	DB	JOB NO.:	08170-0633-6650
CHECKED BY:	DK	FIELD BK.:	

EXHIBIT "C"

LEGAL DESCRIPTION OF AFFECTED PROPERTY

The Affected Property referenced in the Covenant to which this is attached is situated in the State of California, County of Los Angeles, and is described as follows:

That portion of the North one-half of the Northwest one-quarter of Section 8, Township 3 South, Range 11 West, San Bernardino Meridian, in the City of Santa Fe Springs, County of Los Angeles, State of California lying within a strip of land 100.00 feet wide, the Westerly line of which is described as follows:

Beginning at the Northwest corner of said Section 8, said corner also being the centerline intersection of Bloomfield Avenue and Lakeland Road, as shown on a Record of Survey filed in Book 48, page 18 of Records of Survey, in the office of the County Recorder of said County; thence, along the West line of said section, South 0°07'18" West, 140.00 feet; thence, at right angles, South 89°52'42" East, 170.00 feet to the True Point of Beginning; thence, parallel with said West line, South 0°07'18" West, 162.00 feet to the Point of Termination.

EXHIBIT "D"

Peter M. Rooney
Secretary for Environmental Protection

California Regional Water Quality Control Board

Los Angeles Region

Pete Wilson
Governor

Internet Address: http://www.swrcb.ca.gov
101 Centre Plaza Drive, Monterey Park, California 91754-2156
Phone (323) 266-7500 • FAX (323) 266-7600

July 3, 1998

George Bravante
BC Santa Fe Springs, LLC.
717 Lido Park Drive, Suite B
Newport Beach, CA 92663

Robert Wenom, Refinery Manager
Powerine Oil Company
12354 Lakeland Road
P.O. Box 2108
Santa Fe Springs, CA 90670-3857

POWERINE OIL COMPANY - FORMER POWERINE LEASE ON THE WALKER PROPERTY 11240 BLOOMFIELD AVENUE (FILE NO. 85-18)

We reference the Phase II, South Tank Area Soil Investigation, Soil Closure Report, submitted by George Bravante of BC Santa Fe Springs, LLC, on June 3, 1998, our meeting of June 11, 1998, with George Bravante, and two letters dated June 11, 1998, and June 16, 1998, regarding petroleum hydrocarbon contamination at the subject site. Following are our conclusions and recommendations:

1. Cleanup and abatement Order No. 97-118, adopted by this Regional Board on August 25, 1997, in part requires Powerine to cleanup and abate the effects of on-site and off-site soil and ground water contamination originating from its refinery, including the former Powerine Lease on the Walker Property. In addition, it requires Powerine to cleanup and abate the effects of on-site and off-site ground water contamination which may have originated from its Lakeland Property, as required by this Regional Board.

2. Although not free-phase, a soil column of petroleum hydrocarbon contamination, extending from near surface to the ground water, has been identified in borings W-3 and JB-1 on the former Powerine Lease on the Walker Property. Total petroleum hydrocarbons (TPH), up to 11,000 mg/kg, have been identified in these soils. Methyl tertiary butyl ether (MTBE) was not identified as a soil contaminant of concern for the subject site.

3. There is no free-phase product upon the ground water (about 80 feet below ground surface (bgs)) at the site and the ground water contamination from the former Powerine Lease on the Walker Property appears to be deminimus when compared to the extensive contamination from the Powerine refinery.

4. Drinking water does not appear to have been impacted by the subject site contamination in the near-by drinking water production wells located about 1 mile from the site.

Therefore, based on the available information provided and with the provision that the information is accurate and representative of site conditions, we concur with the report conclusions in the report that the remaining residual soil contamination on the former Powerine Lease on the Walker Property poses no significant threat to ground water and in addition, all significant continuing petroleum sources have been removed. We have concluded that no further investigation or remedial action is likely to be required related to the soil contamination originating from the former Powerine Lease on the Walker Property.

In arriving at the above conclusion, we will be requiring Powerine and BC Santa Fe Springs, LLC, to negotiate an agreement to keep and/or replace ground water monitoring wells MW-1, MW-3A, MW-4 and EW-1 and to provide Powerine access to these wells for continued ground water monitoring and remediation.

Please submit to this Regional Board by August 17, 1998, evidence of good faith negotiations to meet the above conditions for closure of the former Powerine Lease on the Walker Property. Please call Keith Elliott at (213) 266-7614 if you have any questions.

J.E. Ross, Unit Chief
Site Cleanup Unit

cc: Jorge Leon, State Water Resources Control Board, Office of Chief Counsel
Hamid Saebfar, Department of Toxic Substances Control, Site Mitigation Branch A
Andy Lazaretto, City of Santa Fe Springs
Dave Klunk, Santa Fe Springs Fire Department
Trevor Santochi, Santochi and Bravante, LLC
June Christman, Powerine Oil Company
Glen Anderson, Texaco, Inc., EHS Division
Pamela Andes, Allen, Matkins, Leck, Gamble & Mallory
David Isola, Isola, Bowers, LLP

APPENDIX C

APPENDIX C

APPROVED WORK PLAN AND UST CLOSURE PERMIT APPLICATION

March 5, 2002
Project No. 203571003

Ms. Brenda Nelson
Santa Fe Springs Fire Department
11300 Greenstone Avenue
Santa Fe Springs, California 90670

Subject: Work Plan for a Limited Subsurface Investigation
Adjacent to the Former Underground Storage Tanks
Walker Property
Santa Fe Springs, California

Dear Ms. Nelson:

This work plan presents the scope of work and estimated schedule to complete a limited subsurface investigation in the vicinity of six former underground storage tanks (USTs) at the above-referenced property (site). The site is located on the southeast corner of the intersection of Lakeland Road and Bloomfield Avenue in the city of Santa Fe Springs, and is referred to as the Walker Property. Work was conducted in general accordance with the proposal dated March 4, 2002 between Cenco Electric Company (Cenco, current owner of the site) and Ninyo & Moore. Cenco is planning to sell the property to a developer. Prior to issuing building permits, the City of Santa Fe Springs requires that all USTs be closed through the Santa Fe Springs Fire Department (SFSFD) or other regulatory agency.

BACKGROUND

Ninyo & Moore recently completed a Phase I Environmental Site Assessment (ESA) for the site for a potential buyer of the property. The Phase I ESA included reviewing numerous environmental reports from agency files including the SFSFD, the Regional Water Quality Control Broad, Los Angeles Region (RWQCB), and the California Department of Toxic Substances Control (DTSC). The site was formerly used since the early-1900s to store crude oil and petroleum hydrocarbon products, and store off-site derived oil well drilling fluids and muds. From the 1960s to the 1980s, the western portion of the site was used by an oil recycling company, a commercial utility trailer sales company, a rubbish disposal service, construction company, an

industrial gas company (AIRCO), and a facility that manufactured wastewater treatment systems. During this time, the USTs discussed herein were installed by the former tenants.

Numerous environmental investigations have been conducted throughout the site from 1985 through 2001, under the direction of the DTSC, RWQCB, and SFSFD, regarding historical environmental issues and in the vicinity of some of the USTs. During these investigations, the site was segregated into four areas, two of which included the Lakewood Section and the Balboa Pacific Section. Based on our Phase I ESA, six USTs were historically removed from the site in the Lakewood Section (Figure 1) and Balboa Pacific Section (Figure 2), and have not been issued a closure letter by a regulatory agency. Below is a summary of our findings:

Capacity	Former Contents	Location	Removed/Closure
3,000-gallon	Unknown, petroleum product	Lakewood Section	Yes/No
4,000-gallon	Gasoline	Lakewood Section	Yes/No
6,000-gallon	Gasoline	Lakewood Section	Yes/No
10,000-gallon	Gasoline	Lakewood Section	Yes/No
20,000-gallon	Gasoline and/or diesel	Balboa Pacific Section	Yes/No
1,000-gallon	Waste oil	Balboa Pacific Section	Yes/No

The 1,000-gallon waste oil UST and 20,000-gallon fuel UST formerly located in the Pacific Balboa Section were reportedly never used. These USTs were installed in approximately 1983 or 1984 by AIRCO, a former tenant of the site. AIRCO was hired by Powerine Refinery (Powerine, located northwest of the site) to process and store carbon dioxide gas from the refinery. Before operations could commence, Powerine filed for bankruptcy and AIRCO left the site. A contractor removed these USTs in 1990 and no confirmation samples or closure report was prepared. The only document discovered was a receipt for a contractor indicating that the USTs were removed and never used.

The remaining four USTs were removed prior to 1990, confirmation samples were collected, and closure reports were prepared and submitted to the Los Angeles Department of Public Works (the lead regulatory agency at the time). No closure letters have been issued.

Cenco has retained Ninyo & Moore to obtain closure letters from the SFSFD for the six USTs. As pursuant to the current RWQCB guidelines, soil samples must be collected for analysis of methyl tertiary butyl ether (MTBE) and fuel oxygenates to be eligible for closure. Based on this information, soil borings will be drilled in the vicinity of the former USTs and soil samples will be analyzed for these constituents. In addition, selected soil samples collected from borings drilled near the two former USTs located in the Balboa Pacific Section will also be analyzed for petroleum hydrocarbons and Title 22 Metals.

Table 1 presents the previous sampling conducted in the vicinity of the former USTs, including confirmation soil sampling conducted following removal of the USTs located in the Lakewood Section. Table 1 also presents the proposed soil sampling outline in this work plan. Groundwater has been measured from on-site wells at depths of approximately 78 to 98 feet below the ground surface (bgs).

The DTSC has reviewed the environmental reports conducted prior to 1995 (including a health-based risk assessment) and issued a no further action letter in 1998 for environmental issues on the entire site. The RWQCB issued a no further action letter for a portion of the site located near the Balboa Pacific Section that is impacted with petroleum hydrocarbons from surface to groundwater.

OBJECTIVES

The objectives of the subsurface investigation are to assess whether elevated concentrations of petroleum hydrocarbons, MTBE, and/or fuel oxygenates are present in soil in the vicinity of the former USTs, and if not, to obtain closure of the USTs with the SFSFD. If impacted soil is found at the site during this investigation, additional work may be warranted.

SCOPE OF SERVICES

The following scope of work is presented to meet the objectives:

- **Subsurface Investigation** – Prior to commencement of field activities, a Health and Safety Plan will be prepared. Following approval of this work plan, a subsurface investigation will

be conducted in the former location of the USTs. One soil boring will be advanced at each end of the former USTs. One boring will be advanced to 20 feet bgs and the other boring will be drilled to approximately 40 feet bgs. Soil samples will be collected at 5-foot depth intervals beginning at approximately 5 feet bgs and continuing to the bottom of the borings.

- **Laboratory Analyses** – Soil samples collected at depths of approximately 5, 10, 20, 30 and 40 feet bgs from each 40-foot boring (a total of 30 samples), and the samples collected at depths of approximately 5, 10, and 20 feet bgs from each of the 20-foot borings (a total of 18 samples) drilled in the vicinity of the USTs will be chemically analyzed for MTBE and fuel oxygenates in general accordance with EPA Method No. 8260B. In addition, the soil samples collected from the borings drilled in the vicinity of the 20,000-gallon and 1,000-gallon USTs (a total of 16 samples) will be analyzed for extended range total petroleum hydrocarbons C_8-C_{32} (TPHe) in general accordance with EPA Method No. 8015 (modified). Two samples collected from the soil borings drilled in the vicinity of the 1,000-gallon UST will also be analyzed for Title 22 metals in general accordance with EPA Method Nos. 6010/7000 series. The soil samples collected for VOCs will be collected using EPA Method No. 5035.

- **Report** - Following receipt of the laboratory results, a report will be prepared documenting the findings. The report will include copies of the previous closure reports and results of the confirmation sampling. The report will be submitted to the SFSFD.

SCHEDULE

Following approval of the work plan, Ninyo & Moore is scheduled to complete the field work on Wednesday and Thursday March 6 and 7, 2002. The report will be submitted to the SFSFD for review on or before Friday March 15, 2002.

If you have any questions or comments regarding this work plan, please call the undersigned at your convenience.

Sincerely,
NINYO & MOORE

Paul A. Roberts, R.G., R.E.A. I/II
Senior Environmental Geologist

REGISTERED GEOLOGIST
PAUL A. ROBERTS
No 6597
STATE OF CALIFORNIA

PAR

Attachments:

Table 1 – Previous and Proposed Sampling in the Vicinity of Underground Storage Tank
Figure 1 – Underground Storage Tank Locations in the Lakewood Section
Figure 2 - Underground Storage Tank Locations in the Balboa Pacific Section

Distribution: (1) Addressee
(1) Ms. June Christman, Cenco Electric Company

Santa Fe Springs Fire Department
Walker Property, Santa Fe Springs

March 5, 2002
Project No. 203571003

TABLE 1 - PREVIOUS AND PROPOSED SAMPLING IN THE VICINITY OF UNDEGROUND STORAGE TANK

Previous Sampling													Proposed Sampling				
Location	Capacity (gallons)	Former Contents	Tank Depth (feet bgs)	Samples Collected Beneath Tank/ Depth	Samples Collected from Boring/ Depth	TRPH (mg/kg)	TPH (mg/kg)	TPHg (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Xylenes (mg/kg)	Boring 1 Sample Depth (feet bgs)	Boring 2 Sample Depth (feet bgs)	MTBE and Fuel Oxygenates	TPHc C_8-C_{32}	Title 22 Metals
Lakewood Section	3,000	Unknown/ Petroleum Products	10		TMB-1/20	---	ND	---	---	---	---	---	5	5	X	---	---
					---	---	---	---	---	---	---	---	10	10	X	---	---
					T11/7	---	---	ND	ND	ND	0.08	0.1	20	20	X	---	---
				UST-3-A/10-12		---	---	ND	ND	ND	ND	ND	30	---	X	---	---
				UST-3-B/10-12		---	---	ND	ND	ND	ND	ND	40	---	X	---	---
Lakewood Section	4,000	Gasoline	10		TSB-3/20	ND	---	---	---	---	---	---	5	5	X	---	---
					TSB-3/35	---	ND	---	---	---	---	---	10	10	X	---	---
				UST-1-A/10-12		---	ND	---	ND	ND	ND	ND	20	20	X	---	---
				UST-1-B/10-12		---	ND	---	ND	ND	ND	ND	30	---	X	---	---
													40	---	X	---	---
Lakewood Section	6,000	Gasoline	12		TSB-3/20	ND	---	---	---	---	---	---	5	5	X	---	---
					TSB-3/35	---	---	---	---	---	---	---	10	10	X	---	---
				UST-2-A/12-14		---	ND	ND	ND	ND	ND	ND	20	20	X	---	---
				UST-2-B/12-14		---	ND	ND	ND	ND	ND	ND	30	---	X	---	---
													40	---	X	---	---
Lakewood Section	10,000	Gasoline	12		TMB-3/10	---	2,200	---	---	---	---	---	5	5	X	---	---
					TMB-3/30	---	3.3	---	---	---	---	---	10	10	X	---	---
					TSB-6/10	---	---	1,800	0.14	4.4	22	120	20	20	X	---	---
					TSB-6/30	---	---	ND	ND	ND	ND	ND	30	---	X	---	---
				UST-4-A/12-14		---	---	ND	ND	ND	ND	ND	40	---	X	---	---
				UST-4-B/12-14		---	---	24	0.38	0.55	0.77	3.2					
Balboa Pacific Section	1,000	Waste Oil	8	Not Collected	Not Collected	---	---	---	---	---	---	---	5	5	X	X	---
													10	10	X	X	X
													20	20	X	X	---
													30	---	X	X	---
													40	---	X	X	---

TABLE 1 - PREVIOUS AND PROPOSED SAMPLING IN THE VICINITY OF UNDEGROUND STORAGE TANK

Previous Sampling													Proposed Sampling				
Location	Capacity (gallons)	Former Contents	Tank Depth (feet bgs)	Samples Collected Beneath Tank/ Depth	Samples Collected from Boring/ Depth	TRPH (mg/kg)	TPH (mg/kg)	TPHg (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Xylenes (mg/kg)	Boring 1 Sample Depth (feet bgs)	Boring 2 Sample Depth (feet bgs)	MTBE and Fuel Oxygenates	TPHe C_8-C_{32}	Title 22 Metals
Balboa Pacific Section	20,000	Gasoline or Diesel Fuel	14	Not Collected	Not Collected	---	---	---	---	---	---	---	5	5	X	X	---
													10	10	X	X	---
													20	20	X	X	---
													30	---	X	X	---
													40	---	X	X	---

Notes:
feet bgs – feet below the ground surface.
UST – underground storage tank.
Tank Depth – This is an assumed depth. Typically the top of the UST is placed approximately 4 feet bgs. The total depth to the bottom of the UST is assuming the diameter of a 1,000-gallon UST is 4 feet; 3,000- and 4,000-gallon USTs are 6 feet; 6,000- and 10,000-gallon USTs are 8 feet; and a 20,000-gallon UST is 10 feet.
Sample Collected Beneath Tank/Depth – Depth of samples collected beneath the USTs are assumed range, based on the Tank Depth stated above. Depth is in feet bgs.
Sample Collected From Boring/Depth – Depth is in feet bgs. T11 is a test pit.
TRPH – Total recoverable petroleum hydrocarbons analyzed in general accordance with EPA Method No. 418.1.
TPH – Total petroleum hydrocarbons analyzed in general accordance with EPA Method No. 8015 (modified).
TPHg – Total petroleum hydrocarbons as gasoline analyzed in general accordance with EPA Method No. 8015 (modified).
Benzene, toluene, ethylbenzene, and xylenes were analyzed in general accordance with EPA Method No. 8020.
MTBE and Fuel Oxygenates – Methyl tertiary butyl ether and fuel oxygenates to be analyzed in general accordance with EPA Method No. 8260B.
TPHe – Extended range total petroleum hydrocarbons to be analyzed in general accordance with EPA Method No. 8015 (modified).
Title 22 Metals to be analyzed in general accordance with EPA Method Nos. 6010/7000 series.
mg/kg – milligram per kilogram.
--- – not analyzed
ND – no detectable concentration above the laboratory detection limit

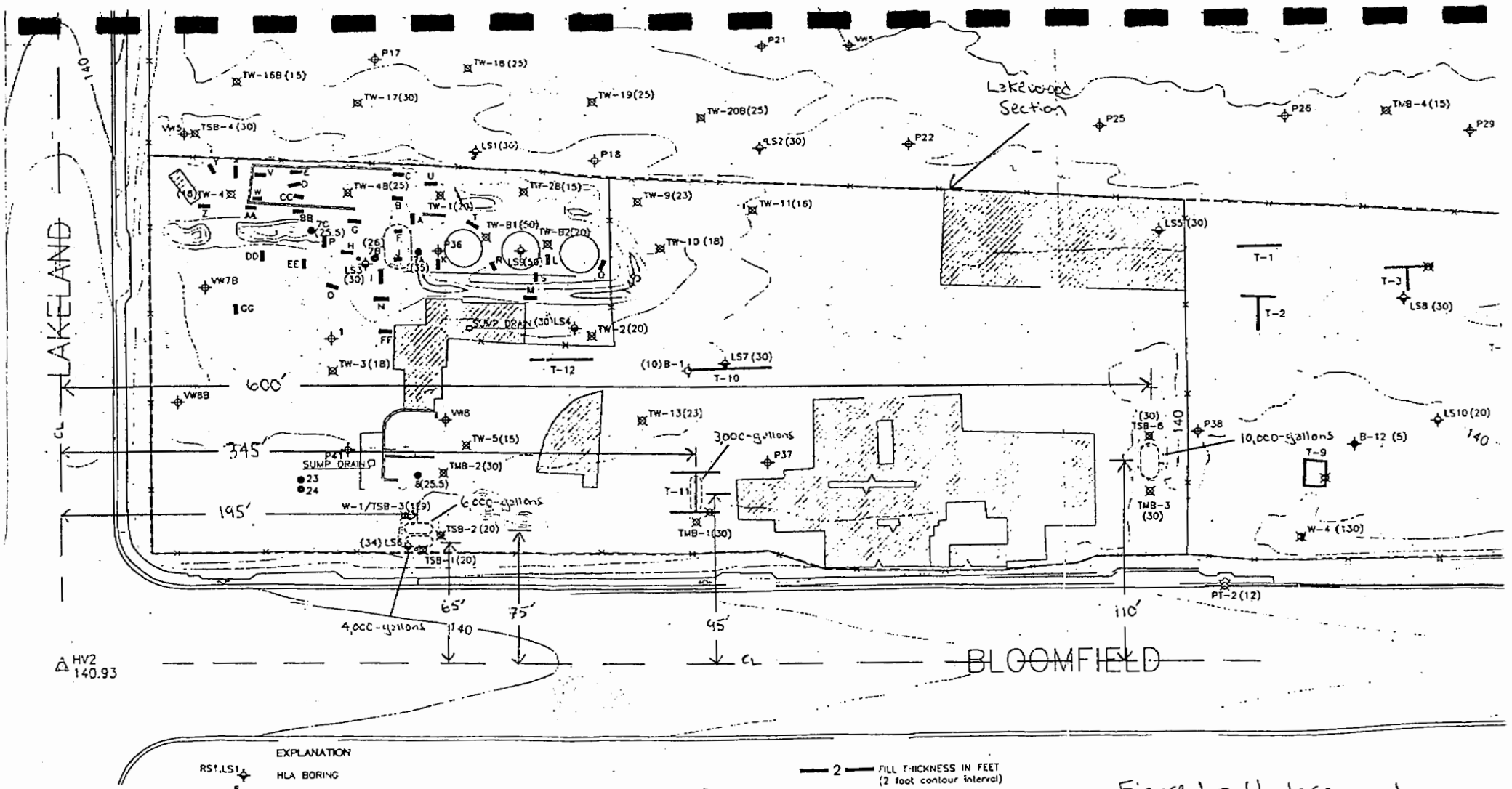


Figure 1 - Underground Storage Tank Locations in the Lakewood Section

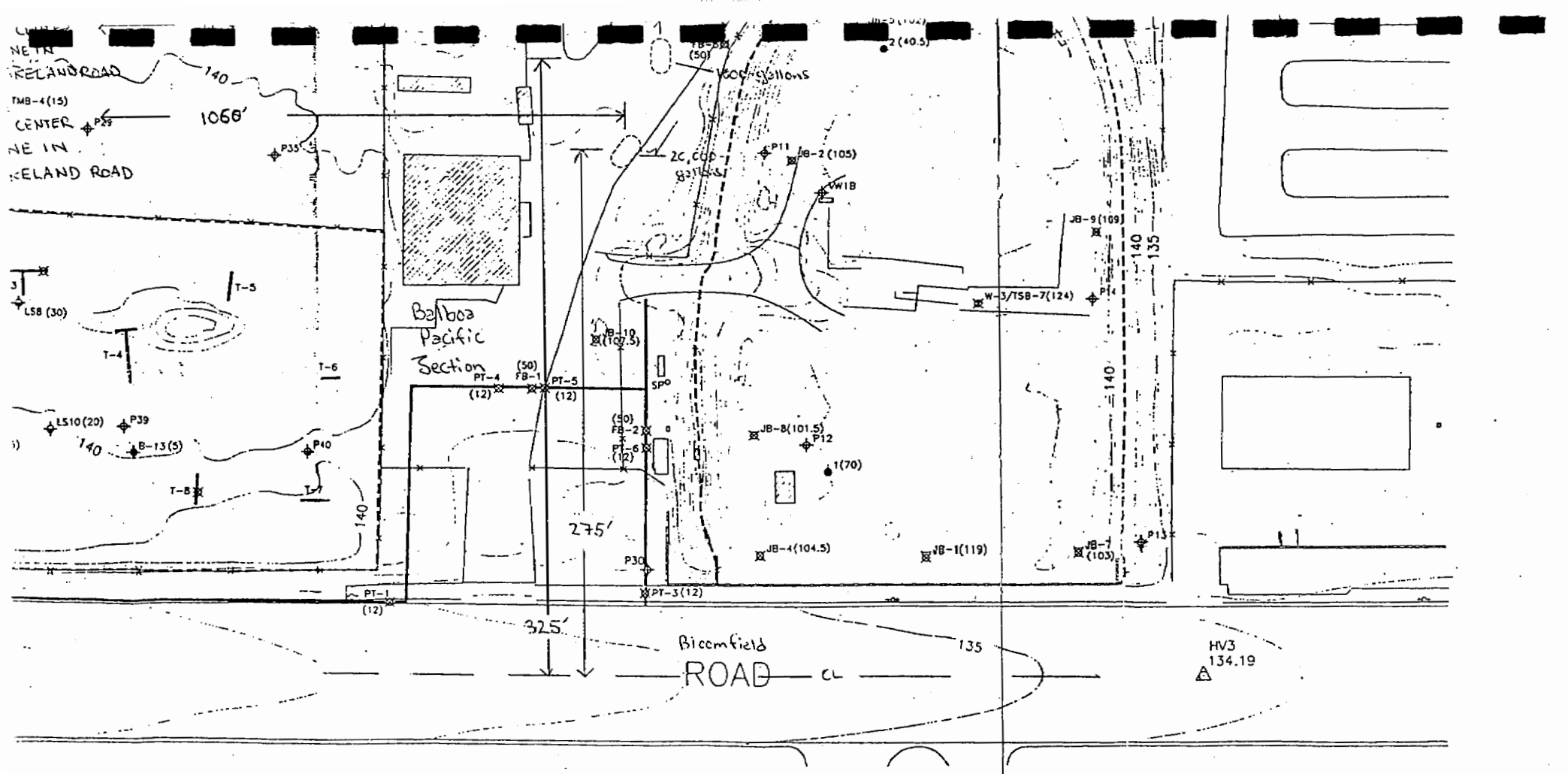


Figure 2 - Underground Storage Tank Locations in the Balboa Pacific Section

Harding Lawson Associates
Engineering and Environmental Services

SITE FILL ISOPACH MAP
Walker Property Site
Santa Fe Springs, California

DRAWN	PROJECT-TASK NUMBER	APPROVED	DATE
JTL	24246-2.7		8/94

March 5, 2002
Project No. 203571003

Ms. Brenda Nelson
Santa Fe Springs Fire Department
11300 Greenstone Avenue
Santa Fe Springs, California 90670

Subject: Work Plan for a Limited Subsurface Investigation
Adjacent to the Former Underground Storage Tanks
Walker Property
Santa Fe Springs, California

Dear Ms. Nelson:

This work plan presents the scope of work and estimated schedule to complete a limited subsurface investigation in the vicinity of six former underground storage tanks (USTs) at the above-referenced property (site). The site is located on the southeast corner of the intersection of Lakeland Road and Bloomfield Avenue in the city of Santa Fe Springs, and is referred to as the Walker Property. Work was conducted in general accordance with the proposal dated March 4, 2002 between Cenco Electric Company (Cenco, current owner of the site) and Ninyo & Moore. Cenco is planning to sell the property to a developer. Prior to issuing building permits, the City of Santa Fe Springs requires that all USTs be closed through the Santa Fe Springs Fire Department (SFSFD) or other regulatory agency.

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Ninyo & Moore recently completed a Phase I Environmental Site Assessment (ESA) for the site for a potential buyer of the property. The Phase I ESA included reviewing numerous environmental reports from agency files including the SFSFD, the Regional Water Quality Control Broad, Los Angeles Region (RWQCB), and the California Department of Toxic Substances Control (DTSC). The site was formerly used since the early-1900s to store crude oil and petroleum hydrocarbon products, and store off-site derived oil well drilling fluids and muds. From the 1960s to the 1980s, the western portion of the site was used by an oil recycling company, a commercial utility trailer sales company, a rubbish disposal service, construction company, an

industrial gas company (AIRCO), and a facility that manufactured wastewater treatment systems. During this time, the USTs discussed herein were installed by the former tenants.

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20,000-gallon	Gasoline and/or diesel	Balboa Pacific Section	Yes/No
1,000-gallon	Waste oil	Balboa Pacific Section	Yes/No

The 1,000-gallon waste oil UST and 20,000-gallon fuel UST formerly located in the Pacific Balboa Section were reportedly never used. These USTs were installed in approximately 1983 or 1984 by AIRCO, a former tenant of the site. AIRCO was hired by Powerine Refinery (Powerine, located northwest of the site) to process and store carbon dioxide gas from the refinery. Before operations could commence, Powerine filed for bankruptcy and AIRCO left the site. A contractor removed these USTs in 1990 and no confirmation samples or closure report was prepared. The only document discovered was a receipt for a contractor indicating that the USTs were removed and never used.

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Table 1 presents the previous sampling conducted in the vicinity of the former USTs, including confirmation soil sampling conducted following removal of the USTs located in the Lakewood Section. Table 1 also presents the proposed soil sampling outline in this work plan. Groundwater has been measured from on-site wells at depths of approximately 78 to 98 feet below the ground surface (bgs).

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OBJECTIVES

The objectives of the subsurface investigation are to assess whether elevated concentrations of petroleum hydrocarbons, MTBE, and/or fuel oxygenates are present in soil in the vicinity of the former USTs, and if not, to obtain closure of the USTs with the SFSFD. If impacted soil is found at the site during this investigation, additional work may be warranted.

SCOPE OF SERVICES

The following scope of work is presented to meet the objectives:

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be conducted in the former location of the USTs. One soil boring will be advanced at each end of the former USTs. One boring will be advanced to 20 feet bgs and the other boring will be drilled to approximately 40 feet bgs. Soil samples will be collected at 5-foot depth intervals beginning at approximately 5 feet bgs and continuing to the bottom of the borings.

- **Laboratory Analyses** – Soil samples collected at depths of approximately 5, 10, 20, 30 and 40 feet bgs from each 40-foot boring (a total of 30 samples), and the samples collected at depths of approximately 5, 10, and 20 feet bgs from each of the 20-foot borings (a total of 18 samples) drilled in the vicinity of the USTs will be chemically analyzed for MTBE and fuel oxygenates in general accordance with EPA Method No. 8260B. In addition, the soil samples collected from the borings drilled in the vicinity of the 20,000-gallon and 1,000-gallon USTs (a total of 16 samples) will be analyzed for extended range total petroleum hydrocarbons C_8-C_{32} (TPHe) in general accordance with EPA Method No. 8015 (modified). Two samples collected from the soil borings drilled in the vicinity of the 1,000-gallon UST will also be analyzed for Title 22 metals in general accordance with EPA Method Nos. 6010/7000 series. The soil samples collected for VOCs will be collected using EPA Method No. 5035.

- **Report** - Following receipt of the laboratory results, a report will be prepared documenting the findings. The report will include copies of the previous closure reports and results of the confirmation sampling. The report will be submitted to the SFSFD.

SCHEDULE

Following approval of the work plan, Ninyo & Moore is scheduled to complete the field work on Wednesday and Thursday March 6 and 7, 2002. The report will be submitted to the SFSFD for review on or before Friday March 15, 2002.

If you have any questions or comments regarding this work plan, please call the undersigned at your convenience.

Sincerely,
NINYO & MOORE

Paul A. Roberts, R.G., R.E.A. I/II
Senior Environmental Geologist

REGISTERED GEOLOGIST
PAUL A. ROBERTS
No 6697

PAR

Attachments:

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Figure 2 - Underground Storage Tank Locations in the Balboa Pacific Section

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(1) Ms. June Christman, Cenco Electric Company

Santa Fe Springs Fire Department
Walker Property, Santa Fe Springs

March 5, 2002
Project No. 203571003

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Lakewood Section	3,000	Unknown/ Petroleum Products	10		TMB-1/20	---	ND	---	---	---	---	---	1A 5	1B 5	X	---	---
					---	---	---	---	---	---	---	---	10	10	X	---	---
					T11/7	---	---	ND	ND	ND	0.08	0.1	20	20	X	---	---
				UST-3-A/10-12		---	---	ND	ND	ND	ND	ND	30	---	X	---	---
				UST-3-B/10-12		---	---	ND	ND	ND	ND	ND	40	---	X	---	---
Lakewood Section	4,000	Gasoline	10		TSB-3/20	ND	---	---	---	---	---	---	2A 5	2B 5	X	---	---
					TSB-3/35	---	ND	---	---	---	---	---	10	10	X	---	---
				UST-1-A/10-12		---	ND	---	ND	ND	ND	ND	20	20	X	---	---
				UST-1-B/10-12		---	ND	---	ND	ND	ND	ND	30	---	X	---	---
													40	---	X	---	---
Lakewood Section	6,000	Gasoline	12		TSB-3/20	ND	---	---	---	---	---	---	3A 5	3B 5	X	---	---
					TSB-3/35	---	---	---	---	---	---	---	10	10	X	---	---
				UST-2-A/12-14		---	ND	ND	ND	ND	ND	ND	20	20	X	---	---
				UST-2-B/12-14		---	ND	ND	ND	ND	ND	ND	30	---	X	---	---
													40	---	X	---	---
Lakewood Section	10,000	Gasoline	12		TMB-3/10	---	2,200	---	---	---	---	---	4A 5	4B 5	X	---	---
					TMB-3/30	---	3.3	---	---	---	---	---	10	10	X	---	---
					TSB-6/10	---	---	1,800	0.14	4.4	22	120	20	20	X	---	---
					TSB-6/30	---	---	ND	ND	ND	ND	ND	30	---	X	---	---
				UST-4-A/12-14		---	---	ND	ND	ND	ND	ND	40	---	X	---	---
				UST-4-B/12-14		---	---	24	0.38	0.55	0.77	3.2					
Balboa Pacific Section	1,000	Waste Oil	8	Not Collected	Not Collected	---	---	---	---	---	---	---	5A 5	5B 5	X	X	---
													10	10	X	X	X
													20	20	X	X	---
													30	---	X	X	---
													40	---	X	X	---

TABLE 1 - PREVIOUS AND PROPOSED SAMPLING IN THE VICINITY OF UNDEGROUND STORAGE TANK

Previous Sampling													Proposed Sampling				
Location	Capacity (gallons)	Former Contents	Tank Depth (feet bgs)	Samples Collected Beneath Tank/ Depth	Samples Collected from Boring/ Depth	TRPH (mg/kg)	TPH (mg/kg)	TPHg (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Xylenes (mg/kg)	Boring 1 Sample Depth (feet bgs)	Boring 2 Sample Depth (feet bgs)	MTBE and Fuel Oxygenates	TPHe C_8-C_{32}	Title 22 Metals
Balboa Pacific Section	20,000	Gasoline or Diesel Fuel	14	Not Collected	Not Collected	---	---	---	---	---	---	---	6A 5	6B 5	X	X	---
													10	10	X	X	---
													20	20	X	X	---
													30	---	X	X	---
													40	---	X	X	---

Notes:

feet bgs – feet below the ground surface.

UST – underground storage tank.

Tank Depth – This is an assumed depth. Typically the top of the UST is placed approximately 4 feet bgs. The total depth to the bottom of the UST is assuming the diameter of a 1,000-gallon UST is 4 feet; 3,000- and 4,000-gallon USTs are 6 feet; 6,000- and 10,000-gallon USTs are 8 feet; and a 20,000-gallon UST is 10 feet.

Sample Collected Beneath Tank/Depth – Depth of samples collected beneath the USTs are assumed range, based on the Tank Depth stated above. Depth is in feet bgs.

Sample Collected From Boring/Depth – Depth is in feet bgs. T11 is a test pit.

TRPH – Total recoverable petroleum hydrocarbons analyzed in general accordance with EPA Method No. 418.1.

TPH – Total petroleum hydrocarbons analyzed in general accordance with EPA Method No. 8015 (modified).

TPHg – Total petroleum hydrocarbons as gasoline analyzed in general accordance with EPA Method No. 8015 (modified).

Benzene, toluene, ethylbenzene, and xylenes were analyzed in general accordance with EPA Method No. 8020.

MTBE and Fuel Oxygenates – Methyl tertiary butyl ether and fuel oxygenates to be analyzed in general accordance with EPA Method No. 8260B.

TPHe – Extended range total petroleum hydrocarbons to be analyzed in general accordance with EPA Method No. 8015 (modified).

Title 22 Metals to be analyzed in general accordance with EPA Method Nos. 6010/7000 series.

mg/kg – milligram per kilogram.

--- – not analyzed

ND – no detectable concentration above the laboratory detection limit

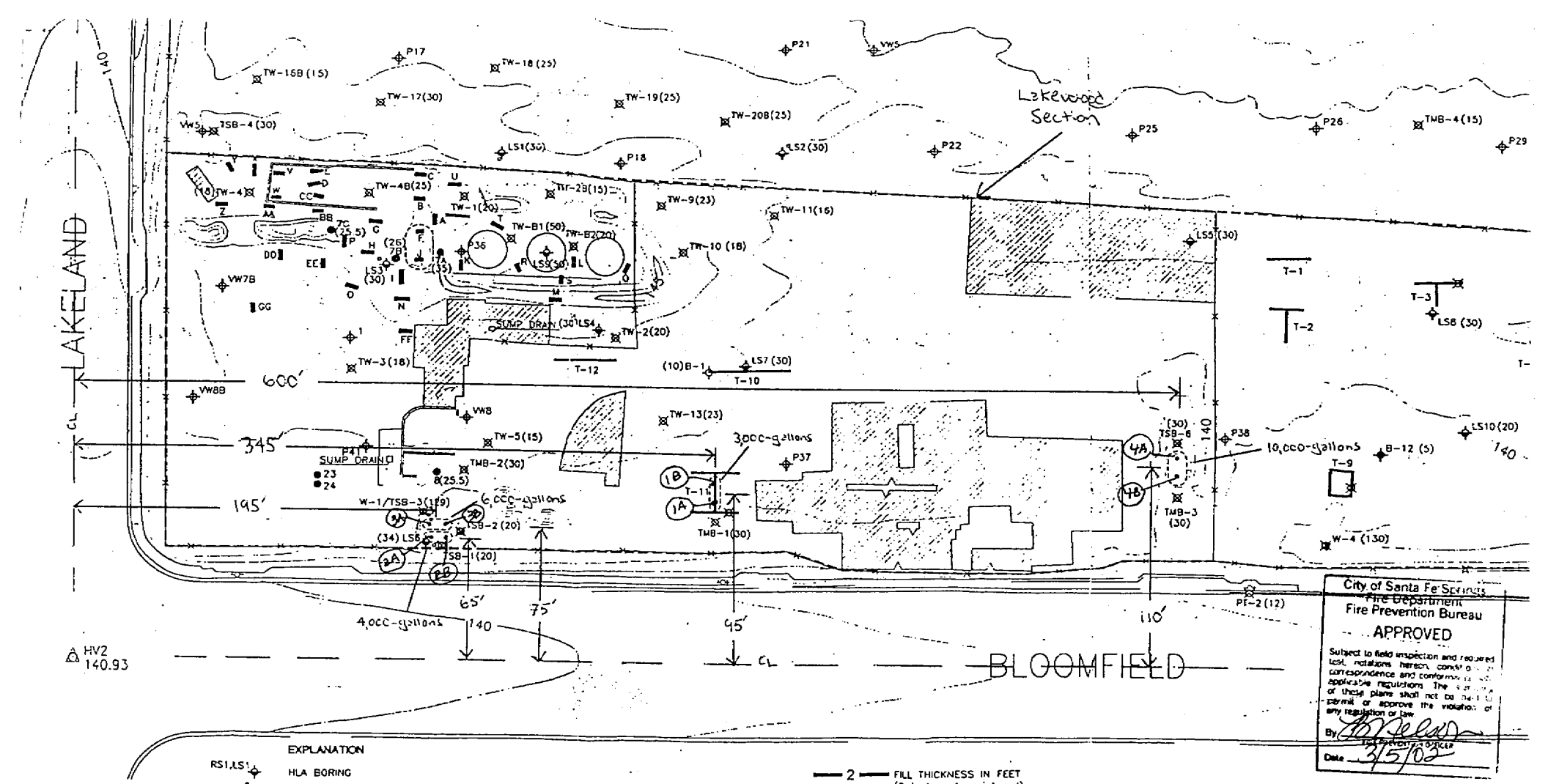


Figure 1 - Underground Storage Tank Locations in the Lakewood Section

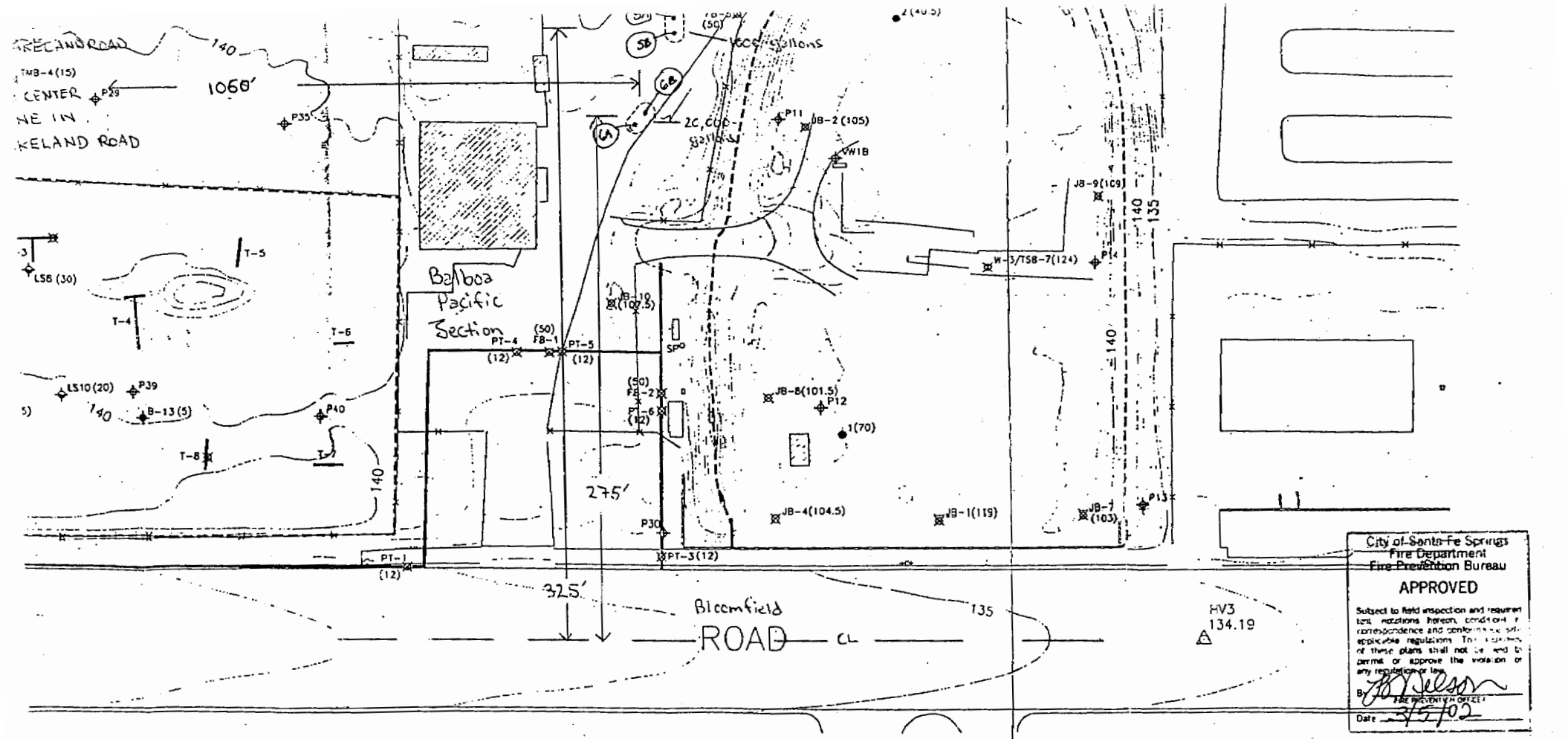


Figure 2 - Underground Storage Tank Locations in the Balboa Pacific Section

N

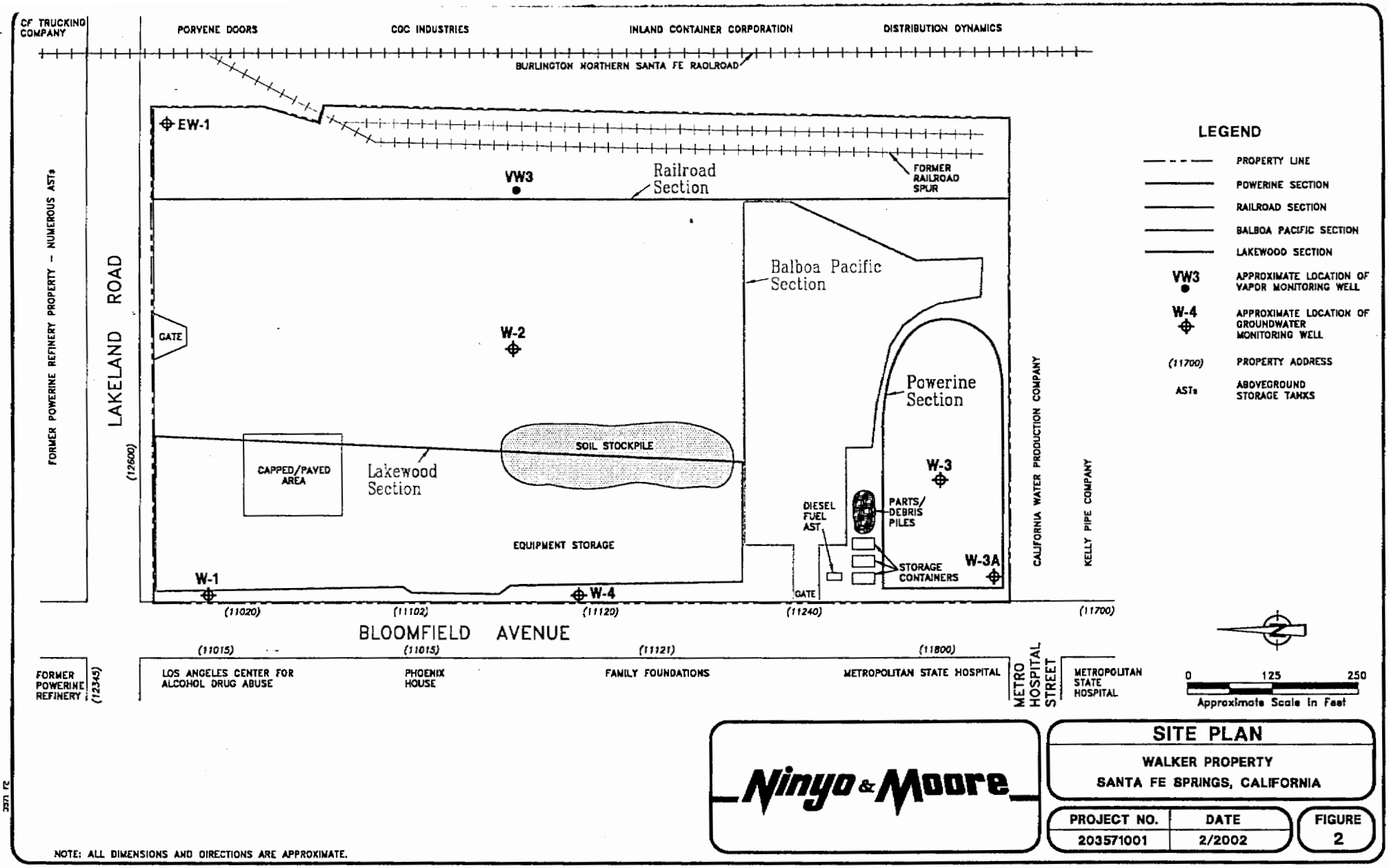
50 0 50 100

SCALE IN FEET

Harding Lawson Associates
Engineering and Environmental Services

SITE FILL ISOPACH MAP
Walker Property Site
Santa Fe Springs, California

DRAWN	PROJECT-TASK NUMBER	APPROVED	DATE
JTL	24246-2.7		8/94



NOTE: ALL DIMENSIONS AND DIRECTIONS ARE APPROXIMATE.

Ninyo & Moore

SITE PLAN

WALKER PROPERTY
SANTA FE SPRINGS, CALIFORNIA

PROJECT NO.	DATE	FIGURE
203571001	2/2002	2

CLOSURE PERMIT SAMPLING SUPPLEMENT

Part 1 of 2

The owner or operator of an underground storage tank being closed shall demonstrate to the satisfaction of the Santa Fe Springs Fire Department that no unauthorized release has occurred. This demonstration shall be based on soil sample analysis and/or water analysis. These requirements are in addition to the conditions listed on the Application for Storage Tank Closure or contained in an approved Closure Plan. Additional guidelines regarding soil sampling requirements are available upon request.

1. Samples shall be obtained at the sampling points (SP) indicated on the attached plot plan.

2. Samples shall be obtained at the depths identified below. *All samples shall be tested by Method 8015 M and 8260 B for all volatile organic compounds (VOC) using preparatory method 5035.

3. Refer to *Soil Sampling Addendum for Volatile, Semi-Volatile and Extremely Hazardous Materials.*

SP	Depth(s)	Compounds	Analysis Method
Refer to Table 1 of "Workplan for a Limited Subsurface Investigation Adjacent to the Former Underground Storage Tanks, Walker Property Santa Fe Springs, California" by Ninyo + Moore dated 3/5/02.			

3. All soil samples obtained shall be discrete, undisturbed and unexposed prior to analysis. The method used to obtain the samples and the date of sampling shall be included in the final report.

4. If groundwater is encountered during sampling, a groundwater monitoring well shall be established at the most down gradient sampling point. The well shall be developed by removing a minimum of four well volumes and a groundwater sample shall be obtained and analyzed.

5. The analytical results for all soil samples shall be expressed milligrams per kilogram (mg/kg), or micrograms per kilogram (ug/kg) as appropriate. Practical quantitation limits of 5-10 ug/kg (ppm) for volatile organics and 1 mg/kg (ppm) for the petroleum hydrocarbons must be achieved by the laboratory. Analytical results for groundwater samples shall be expressed in ug/l (ppb) and practical quantitation limits of .5-5 ug/l (ppb) for volatile organics, and 1mg/l (ppm) for petroleum hydrocarbons must be achieved by the laboratory.

6. Analytical results shall be reported on laboratory letterhead and shall include the following information: a) The date the analysis was conducted; b) The method of extraction (if applicable); c) Detection limits for each analytical procedure and determination; d) The method of analysis; e) Signature of chemist certifying results.

7. All soil/groundwater samples obtained shall be handled and transported to the laboratory in strict accordance with applicable EPA regulations utilizing chain-of-custody procedures. Chain-of-custody documentation shall be included in the final report.

8. If the soil/groundwater analysis indicates undefined contamination at the facility, additional sampling shall be required to define the vertical and lateral extent present.

9. A final report that contains all of the above required information shall be submitted to the office above within one (1) month from the sampling date or 180 days from the date of this permit, whichever is earlier.

*Note: per Health and Safety Code, §25299.37.1 and Los Angeles Regional Water Quality Control Board

NOTIFICATION/PERMIT REQUIREMENTS AND CONTRACTOR'S DECLARATION

Storage tank work is subject to compliance with all applicable laws and regulations relating to the performance of work including, but not limited to, business license requirements, Building Codes, Fire Codes, Air Quality regulations, Health and Safety Codes, Water Codes and Transportation regulations.

You are required to complete ALL of the agency notifications indicated below within 24 hours prior to the commencement of work on this project. A request for an inspection within 24 hours does not guarantee you will receive the desired inspection appointment time. You may want to schedule appointments in advance of the 24-hour minimum requirement.

24 HOUR NOTIFICATION REQUIRED TO:

(X) City of Santa Fe Springs Fire Department
11300 Greenstone Avenue
Santa Fe Springs, CA 90670
(562) 944-9713
(562) 941-1817 FAX

(X) City of Santa Fe Springs Building Department
11710 E. Telegraph Road
Santa Fe Springs, CA 90670
(562) 868-0511
(562) 868-7112 FAX

(X) South Coast Air Quality Management District
21865 Copley Drive
Diamond Bar, CA 91765
(909) 396-2000

FAILURE TO PROVIDE NOTICE AS REQUIRED ABOVE MAY RESULT IN PERMIT REVOCATION, ADDITIONAL SITE ASSESSMENT REQUIREMENTS, AND/OR ADMINISTRATIVE PENALTIES AS PROVIDE BY LAW.

I declare I have personally read the permit application for installation/removal of aboveground/underground storage tanks and will follow all the requirements. I declare that the statements and information provided are true and correct. I understand that no work is to begin on the project until the application and plans are approved. I have a City of Santa Fe Springs Business Operators Tax Certificate. I understand that the Santa Fe Springs Fire Department must be contacted at least 24 hours in advance to schedule each required inspection. I understand that site and worker safety are solely the responsibility of the property owner or his agent and that the responsibility is not shared nor assumed by the City of Santa Fe Springs. I understand that a Health and safety Pan shall be prepared before performing any site work and that a copy of that Plan shall be available on the job site. I understand that a late fee will be charged as a result of an inspection not being canceled in a timely manner or a "not ready for inspection" condition existing upon arrival of a Fire Department Inspector. I understand that variations from the approved plans void the approval of the plans.

STORAGE TANK CLOSURE REQUIREMENTS AND CONDITIONS

A permit is required to perform storage tank closure work. No on-site work shall begin until plans have been submitted and approved by the Santa Fe Springs Fire Department. The Fire Department must witness parts of the work and an inspection must be scheduled at least 24 hours in advance. A fee is also required. Any other governmental agency having jurisdiction must be notified before starting closure work in order to obtain proper clearance, permits, and arrange for required inspections. A copy of the Health and Safety Plan and other necessary permits must be obtained and kept available at the site. A tank closure report is required for all aboveground storage tank removals when soil or groundwater sampling is required and all underground storage tank closures that are not temporary. The requirements for this report are listed under Closure Report Requirements.

CONDITION A

PERMANENT UNDERGROUND AND ABOVE GROUND STORAGE TANK REMOVALS

NON-HAZARDOUS METHOD

The Santa Fe Springs Fire Department Inspector shall witness items 8-14.

1. A minimum of two 2A 40 BC rated fire extinguishers must be on site no further than 75 feet from the tank removal location. Extinguishers must have a current State Fire Marshal's tag attached.

2. All ignition sources must remain at least 50 feet away from the excavation. No smoking signs shall be posted.

3. Colored tape, fencing, and/or appropriate barriers shall be used to maintain site security.

4. All tanks shall be monitored for flammability and oxygen by a monitoring device that has been calibrated within the last six months. A sticker or tag with the last calibration date must be on the unit.

5. All piping associated with the tank shall be removed and disposed of unless removal might cause damage to other structures or pipes that are being used in a common trench, in which case the piping to be closed. Pipeline abandonment procedures are available at the Fire Department upon request.

6. All liquids, including rinseate, shall be removed from the tank and connected piping prior to excavation by approved methods. Grounding and bonding procedures shall be followed. Hazardous waste shall be manifested and transported to a fully approved and permitted TSD facility by a Licensed Hazardous Waste Transporter. The fire inspector shall be provided with a copy of the Hazardous Waste Manifest. Associated piping, including vent lines, electrical lines, and in-tank pumps, shall be disconnected from the tank and removed from the ground unless approved by the Chief. Continuous supervision must be maintained during the operations by the contractor named on the permit.

7. Vapor recovery shall be in accordance with AQMD Rule 1149.

8. NFPA guidelines shall be followed for the cleaning process. Bonding and grounding shall be in place. No "hot" work is permitted any tanks that previously contained flammable or combustible materials. A pneumatic cold-cutting tool may be used to cut openings for the cleaning procedures. Use only beryllium or approved non-sparking tools. The lower explosive limit must be below 10% to conduct such work.

9. Each tank is cleaned on-site, certified by a Certified Marine Chemist, Certified Industrial Hygienist, or Certified Safety Professional as "clean" and vapor free. Tank cleaning shall be timed such that it is completed prior to the arrival of the fire inspector.

10. The Certified Marine Chemist, Certified Industrial Hygienist, or Certified Safety Professional must take the lower explosive limit reading in the presence of the fire inspector *before* adding dry ice to the tank. The monitor must be properly calibrated. The LEL must be 0%.

11. A minimum of 15 pounds of dry ice per thousand gallons of tank capacity shall be placed into the tank.

12. The certified Marine Chemist or certified Industrial Hygienist shall apply an identification number and date to each tank that corresponds to the "certification". A copy of the signed "clean" closure certification form must be given to the fire inspector before he/she leaves the job site.

13. Tanks shall be lifted using a crane unless the contractor, at the time of permit application, can show the inspector that another piece of equipment is acceptable and safe. The tank exterior can only be cleaned with beryllium or non-sparking tools.

14. The tank shall be secured on an appropriate vehicle for immediate removal from the premises. The tank(s) shall be transported for material recycling or salvage with their respective certification(s). Demolition of above ground tanks shall be conducted as in the work plan approved by the Santa Fe Springs Fire Department.

15. In the event that a Certified Marine Chemist, Certified Industrial Hygienist, or Certified Safety Professional will not certify the tank as clean, the tanks shall be handled as a hazardous waste and be transported under all applicable regulations. See Condition B

16. Soil samples shall be taken as listed on the Closure Permit Sampling Supplement form.

17. Each tank will be allotted a maximum of one hour for removal, loading, off-site transportation, and soil sampling. Closure periods which exceed this time frame, are subject to the fire inspector's schedule and will be charged at the Fire Department hourly inspection rate.

18. The site shall be backfilled and compacted to a relative compaction of 90%.

19. All Closure Report Requirements must be submitted to the Fire Department within 30 days from the sampling date or 180 days from the date of the permit, whichever is earlier.

CONDITION B

PERMANENT UNDERGROUND AND ABOVE GROUND STORAGE TANK REMOVALS

HAZARDOUS METHOD
Per CHSC§67383.5

The Fire Department Inspector shall witness item numbers 4 - 6.

1. Items 1-7 as described for Condition A, shall be followed as applicable.

2. All residual liquids, solids, or sludges, shall be removed and handled as a hazardous waste or recyclable materials in accordance with Chapters 6.5 and 6.7 of the Health and Safety Code. NOTICE: Contaminated tanks and residues that may be left in tanks to be closed may be a hazardous waste which must be transported and disposed of pursuant to Chapter 6.5 of the California Health and Safety Code. Failure to comply may be prosecuted as a felony conviction.

3. The tank's interior atmosphere shall be inerted using 22.2 pounds of dry ice per 1000 gallons of tank capacity.

4. A Certified Industrial Hygienist, Certified Marine Chemist, or Certified Safety Professional shall take LEL readings with a CGI that has been properly calibrated. Oxygen content shall also be measured and must be below 8% or less than 50% of the oxygen concentration required to support combustion, whichever is less, during the entire period that work is in progress. The readings shall be taken at the top, center and bottom of the tank before it is loaded onto the transport vehicle.

5. All openings in the tank shall be plugged, except an 1/8 vent. Cracks, holes or other damage shall be covered to contain any release.

6. Items 16 –19 as identified in Condition A shall be complied with.

CONDITION C

PERMANENT IN PLACE UNDERGROUND STORAGE TANK CLOSURES

The Fire Department Inspector shall witness item numbers 4 - 6.

1. All in place storage tank closures must be approved by the Building Department before applying to the Fire Department or a scaled drawing, stamped by a Professional Engineer, may be submitted. The drawing must show the location of the tank in plan view and in cross section. The drawing must show the angle (in degrees) from the closest footing of the permanent structure to the closest part of the tank system.

2. Items 1-7 as described for Condition A, shall be followed as applicable.

3. All residual liquids, solids, or sludges, shall be removed and handled as a hazardous waste or recyclable materials in accordance with Chapters 6.5 and 6.7 of the Health and Safety Code.

4. A Certified Marine Chemist, Certified Industrial Hygienist, or Certified Safety Professional shall monitor the tank interior and exterior for potential harmful vapors. LEL must be below 10%.

5. The tank shall be completely filled with an inert solid. Cement slurry is acceptable. Sand or water is not. Alternative proposals must be submitted in writing and are subject to Fire Department approval.

6. Each tank will be allotted a maximum of one hour for filling of the tank and soil sampling. Closure periods which exceed this time frame, are subject to the fire inspector's schedule and will be charged at the Fire Department hourly inspection rate.

7. Soil samples shall be taken as listed on the Soil Sampling. Requirements form in the Application for Storage Tank Closure.

8. All Closure Report Requirements must be submitted to the Fire Department within 30 days from the sampling date or 180 days from the date of the permit, whichever is earlier.

CONDITION D

TEMPORARY STORAGE TANK CLOSURES

The Fire Department Inspector shall witness items 2 – 5.

1. Items 2 and 3 as described in Condition C, shall be followed as applicable.

2. The Fire Department shall witness verification that the tank is empty. This may be done by dip sticking the tank. Afterward, the storage tank may be filled with a non-corrosive liquid that is not a hazardous substance. Proof of compatibility of the liquid with the tank must be submitted to the Santa Fe Springs Fire Department.

3. Except for required venting, all fill and access locations and piping shall be sealed using locking caps or concrete plugs.

4. Power service shall be disconnected from all pumps associated with the use of the storage tank unless the power services some other equipment which is not being closed, such as an impressed-current cathodic protection system.

5. Monitoring shall continue pursuant to the permit during the temporary closure, unless determined otherwise by the Fire Department.

6. The storage tank shall be inspected every 3 months by the owner or operator to verify temporary closure requirements are still in place.

7. Temporary closure permits are valid for six months from the date of approval. The tank must be removed, closed in place, or put back into use. If the tank is reused, it must meet the requirements of the Uniform Fire Code, Article 3 or 6 of Title 23 of the California Code of Regulations, Division 3, Chapter 16, and Health and Safety Code Ch. 6.7.

CONDITION E

WELL ABANDONMENTS

1. All abandoned wells shall be destroyed in such a way that they will not produce water or act as a channel for interchange of water, when such interchange may result in deterioration of the quality of water in any or all water bearing formations penetrated, or present a hazard to the safety and well being of people and animals.

2. A well destruction permit issued by the Los Angeles Department of Health Services shall be required for all wells requiring a permit for their initial construction.

3. Well destruction shall be accomplished according to methods described in the latest "Water Well Standards: State of California" by the Department of Water Resources, contained in bulletin 74-81, December 1981, or any other methods that will provide equivalent or better protection.

4. Verification of well abandonment may be submitted in writing or by requesting a Fire Department inspection.

NOTICE TO CLOSURE PERMIT APPLICANTS

The South Coast Air Quality Management District (SCAQMD) has adopted Rule 1166 regulating emissions of Volatile Organic Compounds (VOC) from decontamination of soil effective August 6, 1988.

In addition to the requirements of your Closure Permit, persons excavating any underground storage tank that previously contained VOC's must:

- Notify the SCAQMD Executive Officer by telephone at (310) 403-6000 24 hours prior to tank excavation. 1166 (c) (1) (A)
- Monitor the excavated material during the excavation for VOC contamination. 1166 (C) (1) (B)
- When VOC contamination is detected:
  - Cease excavation
  - Cover the contaminated soil until implementation of approved mitigation measures. 1166 (c) (1) (C)
  - Notify the SCAQMD Executive Officer at (714) 396-2000 within 24 hours of detection of VOC contaminated soil. 1166 9 (c) (2) (A)
- A person shall not engage in or allow any on-site or off-site spreading of VOC contaminated soil which results in uncontrolled evaporation or VOC to the atmosphere. 1166 (c) (3)

EXEMPTIONS

- Treatment of less than one (1) cubic yard of contaminated soil. 1166 (d) (1) (A)
- Decontamination of soil containing organic compounds that have initial boiling point of 302 ° F or greater, Reid Vapor Pressure less than 80 mm Hg or Absolute Vapor Pressure less than 36 mm Hg at 20 ° C. 1166 (d) (1) (B). (F)
- Removal of soil for sampling purposes pursuant to EPA methods. 1166 (d) (1) (C)
- Accidental spillage of five (5) gallons or less of VOC. 1166 (d) (1) (D)
- Documentation of soil which is contaminated through natural seepage of VOC from oil and gas wells or other natural sources. 166 (d) (1) (E)

SPECIFIC QUESTIONS ON RULE 1166 SHOULD BE REFERRED TO THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT AT (909) 396-2000

CLOSURE REPORT REQUIREMENTS

A closure report for storage tanks shall be submitted to the Santa Fe Springs Fire Department containing the items listed below. All closure report requirements must be submitted to the Fire Department within 30 days from the sampling date or 180 days from the data of this permit, whichever is earlier.

1. Site address of tank closure location.
2. Plot plan to scale showing the location of tanks, sampling points, buildings, adjacent streets, and a north arrow. Use a legend to identify tank size and past contents.
3. Description of methods for obtaining, handling, and transporting samples.
4. Time and date samples were obtained.
5. Soil sampling certification (including but not limited to soils classification, boring logs, sample procedures, sample locations, initiating chain of custody, and groundwater location) for tank closure shall be certified by a California Registered Geologist, a California Certified Engineering Geologist, or a California Registered Civil Engineer with sufficient experience in soils. The certification must clearly state that all work was done under the supervision of the person signing.
6. Chain of custody documentation initiated by the person obtaining samples through the person at a Cal/EPA Department of Toxic Substances Control certified laboratory.
7. Copy of "clean" closure certification signed by a Certified Marine Chemist, Certified Industrial Hygienist, or Certified Safety Professional.
8. Copy of Santa Fe Springs Building Department permit. This is required on all underground tank closures and some aboveground tank closures.
9. Disposal destination of tanks and legal evidence of disposal. Include copy of the Storage Tank Closure Certification form if tanks were removed as hazardous waste.
10. Disposal documentation, such as manifests, signed by the receiving facility, for the disposal of any removed soil, tank rinseate, and/or remaining tank contents. Records shall also include a proper waste determination for all waste material related to the removal of the tank(s).
11. Analysis results by a State certified laboratory submitted on laboratory letterhead showing analysis date, method of extraction, and method of analysis.
12. Documentation as to depths of groundwater at facility.
13. Any observations of site contamination.
14. Remedial action plan to mitigate contamination.
15. Report to be signed by a California Registered Geologist, a California Certified Engineering Geologist, or a California Registered Civil Engineer with sufficient experience in soils.

City of Santa Fe Springs Fire Department • Certified Unified Program Agency
11300 Greenstone Avenue
Santa Fe Springs, CA 90670
Phone (562) 944-9713 • Fax (562) 941-1817

APPLICATION FOR STORAGE TANK CLOSURE

☐ ABOVEGROUND ☒ UNDERGROUND

FACILITY NAME: Walker Property

LOCATION: 11020, 11102 & 11120 Bloomfield Ave. for Tanks 1 through 4
See 11240 Bloomfield Ave. for Tanks 5 and 6

RESPONSIBLE PARTY INFORMATION:

Name Cenco Electric Company

Mailing Address 12345 Lakeland Road City Santa Fe Springs State CA Zip 90670

Contact Person June Christman Phone 562-944-6111

☒ CONTRACTOR OR ☐ OWNER/OPERATOR AS CONTRACTOR Please indicate by checking appropriate box. A list of all subcontractors must be provided. List must include subcontractor name, address, phone number, scope of work, and a copy of the contractor's license.

Name Ninyo & Moore State License Number 697063

Address 475 Goddard Suite 200 City Irvine State CA Zip 92618

Contact Person Paul Roberts Phone 949-753-7070

CLOSURE REQUESTED: *All closures under this application must meet the requirements and conditions listed below.*

☒ Permanent, tank removal, non-hazardous (see condition A attached)
☐ Permanent, tank removal, hazardous (see condition B attached)
☐ Permanent, closure in place (see condition C attached).
☐ Temporary (see condition D attached)
☐ Monitoring well abandonment (see Condition E attached) All tanks removed in 1990

DATE TANK SYSTEM WILL BE CLEANED AND/OR EXCAVATED, OR CLOSED: _____ INTENDED DISPOSITION OF TANK _____

INTENDED DESTINATION OF TANK SYSTEM (location name and address): _____

COMPLETE THE FOLLOWING:

					TO BE COMPLETED BY FIRE DEPT.		
TANK ID NUMBER (use state tank ID# for underground tanks)	TANK MATERIAL	AGE IN YEARS	CAPACITY	LAST MATERIAL STORED/PAST MATERIAL STORED PER CC4R67383 3(D)1	DATE CLOSED	INSP. INITIALS	COMMENTS
1	metal	unk	4000	Gasoline Unleaded			
2	metal	unk	6000	Gasoline Unleaded			
3	metal	unk	3000	Gasoline Unleaded			
4	metal	unk	10,000	Gasoline Unleaded			
5	unk	7	1000	waste oil			
6	unk	7	20,000	Gasoline or Diesel Unleaded			

	YES	NO
Has an unauthorized release ever occurred at this site?	☐	☒
Have structural repairs ever been made to these tanks?	☐	☒
Will new tanks be installed after this closure?	☐	☒

How many tanks will remain after this closure? ASTs 0 USTs 0

By signature below the applicant certifies that they have read, understand, and agree to abide by the Storage Tank Closure Requirements and Conditions, the Notification/Permit Requirements and Contractor's Declaration, the Notice to Closure Permit Applicants, and all other conditions and limitations attached. Additional guidelines are available upon request. By signature below you declare you are authorized to certify on behalf of the tank operator that the identity of the last material or waste stored or accumulated in the tank is true and correct.

Applicant's Signature Paul Roberts Date 3-5-02

Print Name Paul Roberts Phone 949-753-7070

Title(please check): ☐ Owner ☐ Operator ☒ Contractor

TO BE COMPLETED BY THE SANTA FE SPRINGS FIRE DEPARTMENT

PERMISSION IS HEREBY GRANTED TO PROCEED WITH THE CLOSURE DESCRIBED ABOVE SUBJECT TO THE ATTACHED CONDITIONS AND LIMITATIONS. THIS PERMIT EXPIRES 180 DAYS FROM THE DATE BELOW.

Neal Welland Inspector [signature] Date Approved 3/5/02

Fire Chief Fee Amount $ 1,944.00 Date Paid 3/5/02 Received by

UNIFIED PROGRAM CONSOLIDATED FORM

UNDERGROUND STORAGE TANKS - FACILITY

(one page per site) Page ____ of ____

TYPE OF ACTION (Check one item only) ☐ 1. NEW SITE PERMIT ☐ 2. INTERIM PERMIT ☐ 3. RENEWAL PERMIT ☐ 4. AMENDED PERMIT ☐ 5.CHANGE OF INFORMATION ☐ 6.TEMPORARY SITE CLOSURE ☐ 7.PERMANENTLY CLOSED SITE ☒ 8. TANK REMOVED 400

I. FACILITY / SITE INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA) 3: Walker Property

FACILITY ID#: 1 9 0 4 9 1

BUSINESS SITE ADDRESS 103: 11020, 11102, 11120, 11240 Bloomfield Ave

BUSINESS TYPE 403: ☐ 1. GAS STATION ☐ 3. FARM ☒ 5. COMMERCIAL ☐ 2. DISTRIBUTOR ☐ 4. PROCESSOR ☐ 6. OTHER

FACILITY OWNER TYPE 402: ☒ 1. CORPORATION ☐ 2. INDIVIDUAL ☐ 3. PARTNERSHIP ☐ 4. LOCAL AGENCY/DISTRICT* ☐ 5. COUNTY AGENCY* ☐ 6. STATE AGENCY* ☐ 7. FEDERAL AGENCY*

TOTAL NUMBER OF TANKS REMAINING AT SITE 404: 0

Is facility on Indian Reservation or trustlands? 405: ☐ Yes ☒ No

*If owner of UST is a public agency: name of supervisor of division, section or office which operates the UST (This is the contact person for the tank records.) 406:

II. PROPERTY OWNER INFORMATION

PROPERTY OWNER NAME 407: Cenco Electric Company

PHONE 408: 562-944-6111

MAILING OR STREET ADDRESS 409: 12345 Lakeland Road

CITY 410: Santa Fe Springs

STATE 411: CA

ZIP CODE 412: 90670

PROPERTY OWNER TYPE 413: ☒ 1. CORPORATION ☐ 2. INDIVIDUAL ☐ 3. PARTNERSHIP ☐ 4. LOCAL AGENCY / DISTRICT ☐ 5. COUNTY AGENCY ☐ 6. STATE AGENCY ☐ 7. FEDERAL AGENCY

III. TANK OWNER INFORMATION

TANK OWNER NAME 414: Cenco Electric Company

PHONE 415: 562-944-6111

MAILING OR STREET ADDRESS 416: 12345 Lakeland Road

CITY 417: Santa Fe Springs

STATE 418: CA

ZIP CODE 419: 90670

TANK OWNER TYPE 420: ☒ 1. CORPORATION ☐ 2. INDIVIDUAL ☐ 3. PARTNERSHIP ☐ 4. LOCAL AGENCY / DISTRICT ☐ 5. COUNTY AGENCY ☐ 6. STATE AGENCY ☐ 7. FEDERAL AGENCY

IV. BOARD OF EQUALIZATION UST STORAGE FEE ACCOUNT NUMBER

TY (TK) HQ 44- _____ Call (916) 322-9669 if questions arise 421

V. PETROLEUM UST FINANCIAL RESPONSIBILITY

INDICATE METHOD(s) 422: ☐ 1. SELF-INSURED ☐ 2. GUARANTEE ☐ 3. INSURANCE ☐ 4. SURETY BOND ☐ 5. LETTER OF CREDIT ☐ 6. EXEMPTION ☐ 7. STATE FUND ☐ 8. STATE FUND & CFO LETTER ☐ 9. STATE FUND & CD ☐ 10. LOCAL GOVT MECHANISM ☐ 99. OTHER:

VI. LEGAL NOTIFICATION AND MAILING ADDRESS

Check one box to indicate which address should be used for legal notifications and mailing. Legal notifications and mailings will be sent to the tank owner unless box 1 or 2 is checked. 423: ☐ 1. FACILITY ☒ 2. PROPERTY OWNER ☐ 3. TANK OWNER

VII. APPLICANT SIGNATURE

Certification – I certify that the information provided herein is true and accurate to the best of my knowledge.

SIGNATURE OF APPLICANT: Paul Roberts

DATE 424: 3-5-02

PHONE 425: 949-753-7070

NAME OF APPLICANT (print) 426: Paul Roberts

TITLE OF APPLICANT 427: Sr. Environmental Geologist

OFFICIAL USE ONLY	DATE RECEIVED	CUPA	PA	DISTRICT/INSPECTOR
	3/5/02			

STATE UST FACILITY NUMBER 428:

1998 UPGRADE CERTIFICATE NUMBER 429:

UST - Facility

Complete the UST - Facility page for all new permits, permit changes or any facility information changes. This page must be submitted within 30 days of permit or facility information changes, unless approval is required before making any changes.

Submit one UST - Facility page per facility, regardless of the number of tanks located at the site. This form is completed by either the permit applicant or the local agency underground tank inspector. As part of the application, the tank owner must submit a scaled facility plot plan to the local agency showing the location of the USTs with respect to buildings and landmarks [23 CCR §2711 (a)(8)], a description of the tank and piping leak detection monitoring program [23 CCR §2711 (a)(9)], and, for tanks containing petroleum, documentation showing compliance with state financial responsibility requirements [23 CCR §2711 (a)(11)].

Refer to 23 CCR §2711 for state UST information and permit application requirements.
(Note: the numbering of the instructions follows the data element numbers that are on the UP Form pages. These data element numbers are used for electronic submission and are the same as the numbering used in 27 CCR, Appendix C, the Business Section of the Unified Program Data Dictionary.)
Please number all pages of your submittal. This helps your CUPA or PA identify whether the submittal is complete and if any pages are separated.

1. FACILITY ID NUMBER - Leave this blank. This number is assigned by the CUPA. This is the unique number which identifies your facility.
3. BUSINESS NAME - Enter the full legal name of the business.
103. BUSINESS SITE ADDRESS – Enter the street address where the facility is located. No post office box numbers are allowed.
400. TYPE OF ACTION - Check the reason the page is being completed. CHECK ONE ITEM ONLY.
401. FACILITY OWNER TYPE - Check the type of business ownership.
402. BUSINESS TYPE - Check the type of business.
403. TOTAL NUMBER OF TANKS REMAINING AT SITE - Indicate the number of tanks remaining on the site after the requested action.
404. INDIAN OR TRUST LAND - Check whether or not the facility is located on an Indian reservation or other trust lands.
405. PUBLIC AGENCY SUPERVISOR NAME - If the facility owner is a public agency, enter the name of the supervisor for the division, section or office which operates the UST. This person must have access to the tank records.
406. PROPERTY OWNER NAME -
407. PROPERTY OWNER PHONE
408. PROPERTY OWNER MAILING OR STREET ADDRESS
409. PROPERTY OWNER CITY
410. PROPERTY OWNER STATE
411. PROPERTY OWNER ZIP CODE

Complete items 407- 412 for the property owner, unless all items are the same as the Owner Information (items 111-116) on the Business Owner/Operator Identification page (OES Form 2730). If the same, write "SAME AS SITE" in this section.

412. PROPERTY OWNER TYPE - Check the type of property ownership.
413. TANK OWNER NAME -
414. TANK OWNER PHONE
415. TANK OWNER MAILING OR STREET ADDRESS
416. TANK OWNER CITY
417. TANK OWNER STATE
418. TANK OWNER ZIP CODE

Complete items 414- 419 for the tank owner,, unless all items are the same as the Owner Information (items 111-116) on the Business Owner/Operator Identification page (OES Form 2730). If the same, write "SAME AS SITE" in this section.

419. TANK OWNER TYPE - Check the type of tank ownership.
420. BOE NUMBER - Enter your Board of Equalization (BOE) UST storage fee account number. This fee applies to regulated USTs storing petroleum products. This is required before your permit application can be processed. If you do not have an account number with the BOE or if you have any questions regarding the fee or exemptions, please call the BOE at (916) 322-9669 or write to the BOE at: Board of Equalization, Fuel Taxes Division, P.O. Box 942879, Sacramento, CA 94279-0030.
421. PETROLEUM UST FINANCIAL RESPONSIBILITY CODE - Check the method(s) used by the owner and/or operator in meeting the Federal and State financial responsibility requirements. CHECK ALL THAT APPLY. If the method is not listed, check "other" and enter the method(s). USTs owned by any Federal or State agency and non-petroleum USTs are exempt from this requirement.
422. LEGAL NOTIFICATION AND MAILING ADDRESS - Indicate the address to which legal notifications and mailings should be sent. The legal notifications and mailings will be sent to the tank owner unless the facility (box 1) or the property owner (box 2) is checked.

SIGNATURE OF APPLICANT - The business owner/operator of the tank facility, or officially designated representative of the owner/operator, shall sign in the space provided. This signature certifies that the signer believes that all the information submitted is accurate and complete.

423. DATE CERTIFIED - Enter the date that the page was signed.
424. APPLICANT PHONE - Enter the phone number of the applicant (person certifying).
425. APPLICANT NAME - Enter the full printed name of the person signing the page.
426. APPLICANT TITLE - Enter the title of the person signing the page.
427. STATE UST FACILITY NUMBER - Leave this blank. This number is assigned by the CUPA as follows: the number is composed of the two digit county number, the three digit jurisdiction number, and a six digit facility number. The facility number must be the same as shown in item 1.
428. 1998 UPGRADE CERTIFICATE NUMBER - Leave this blank. This number is assigned by the CUPA or PA.

City of Santa Fe Springs Fire Department

11300 GREENSTONE AVE • SANTA FE SPRINGS • CA 90670
(562) 944-9713 • FAX (562) 941-1817

PLAN REVIEW / PERMIT APPLICATION

Name of Facility: Walker Property
Project Address: 11020, 11102, 11120, 11240 Bloomfield Ave.
Project Contact: June Christman — Telephone (562) 944-6111
Architect/Engineer: Paul Roberts — Telephone (949) 753-7070
Address: 475 Goddard, Irvine CA 92618

Description of work
Permanent closure of 6 USTs including soil sampling

CONTRACTOR INFORMATION (if applicable)
Contractor: Ninyo & Moore — Telephone (949) 753-7070
Address: 475 Goddard, Suite 200 Irvine CA
License Class: A — License Number: 697063 — Expiration Date: 10/31/02

LICENSED CONTRACTOR DECLARATION (if applicable)
I hereby affirm that I am licensed under provisions of Chapter 9 (commencing with section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.
Signature: Paul Roberts — Date: 3/15/02

OWNER/BUILDER DECLARATION
I hereby certify that I have read this application and state that the above information is correct. I agree to comply with all city ordinances and state laws relating to construction, and hereby authorize representatives of this city to enter upon mentioned property for inspection purposes.
Signature: Paul Roberts — Date: 3/15/02

√	FIRE PROTECTION DIVISION	FEE
	Preliminary Plan Review	
	3 or more Plan Re-Submittal	
	Fire Alarm System	
	Fire Extinguishing System (Dry Chem System)	
	Fire Sprinkler Systems sq. ft. per floor	
	New Construction Plan Review sq. ft. per floor	
	High-Piled Combustible Stock (Racks/Draft Curtains/Hose Racks/Smoke Vents) sq. ft. per floor	
	Underground Fire Mains/Pumps/Tanks	
	Tenant Improvements(Structural/Sprinkler)	
	Flammable/Combustible Liquid Tank & Piping (UG & AG)	
	LPG Tanks	
	Paint Spray Booths/Dip Tanks	
	Dust Collection Systems	
	On-site Fire Hydrant System	
	Drying Ovens	
	Tents and Air Support Structure	
	Compressed Gas System	
	Carnivals & Fairs	
	Monitoring Wells	
	Abandonment/Reabandonment of Oil Wells w/capping	
	Gas Detection Systems	
	Soil Venting Systems	
	Plan Expedite	
	Other	

√	ENVIRONMENTAL PROTECTION DIVISION	FEE
	Preliminary Plan Review (Article 80)	
	"H" Occupancy	
	Emergency Alarm System	
	Closure Plan/Permit Review	
	UST & AST (Installation/Removal/Modifications)	
	a. First Tank 1 × 464	464
	b. Each Additional Tank 5 × 166	830
	Chemical Classification & Occupancy Rating U.F.C./U.B.C. Tables Review	
	Site Assessment/Mitigation	
	Asbestos Removal	
	IW Permit Review	
	IW Plan Review	
	Plan Expedite	
	Other	
√	FIRE SUPPRESSION	
	Stand-by Fire Watch	
	Fire Department Equipment w/ Crew	
	Confined Space Back-up Team	
	OTHER	
	TOTAL DUE	$1294.00

INSPECTOR: [signature] — DATE: 3/15/02

MAKE CHECKS PAYABLE TO THE CITY OF SANTA FE SPRINGS

APPENDIX D

APPENDIX D

BORING LOGS

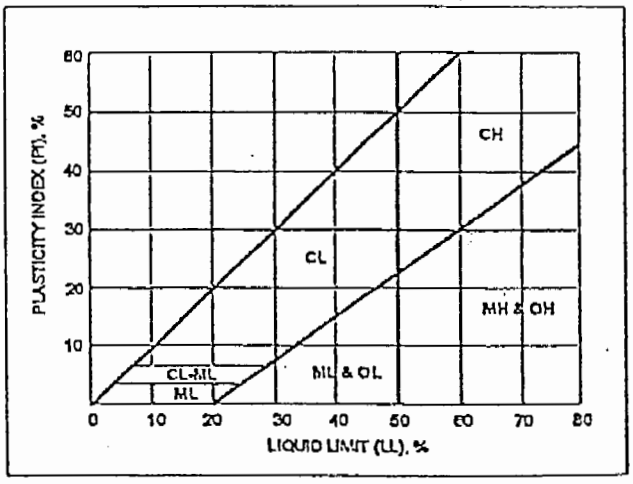
U.S.C.S. METHOD OF SOIL CLASSIFICATION

MAJOR DIVISIONS		SYMBOL	TYPICAL NAMES
COARSE-GRAINED SOILS (More than 1/2 of soil >No. 200 sieve size)	GRAVELS (More than 1/2 of coarse fraction > No. 4 sieve size)	GW	Well graded gravels or gravel-sand mixtures little or no fines
		GP	Poorly graded gravels or gravel-sand mixtures, little or no fines
		GM	Silty gravels, gravel-sand-silt mixtures
		GC	Clayey gravels, gravel-sand-clay mixtures
	SANDS (More than 1/2 of coarse fraction <No. 4 sieve size)	SW	Well graded sands or gravelly sands, little or no fines
		SP	Poorly graded sands or gravelly sands, little or no fines
		SM	Silty sands, sand-silt mixtures
		SC	Clayey sands, sand-clay mixtures
FINE-GRAINED SOILS (More than 1/2 of soil <No. 200 sieve size)	SILTS & CLAYS Liquid Limit <50	ML	Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity
		CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays
		OL	Organic silts and organic silty clays of low plasticity
	SILTS & CLAYS Liquid Limit >50	MH	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts
		CH	Inorganic clays of high plasticity, fat clays
		OH	Organic clays of medium to high plasticity, organic silty clays, organic silts
HIGHLY ORGANIC SOILS		Pt	Peat and other highly organic soils

CLASSIFICATION CHART (Unified Soil Classification System)

CLASSIFICATION	RANGE OF GRAIN SIZES	
	U.S. Standard Sieve Size	Grain Size In Millimeters
BOULDERS	Above 12"	Above 305
COBBLES	12" to 3"	305 to 76.2
GRAVEL	3" to No.4	76.2 to 4.75
Coarse	3" to 3/4"	76.2 to 19.1
Fine	3/4" to No. 4	19.1 to 4.75
SAND	No. 4 to No. 200	4.76 to 0.074
Coarse	No. 4 to No. 10	4.76 to 2.00
Medium	No. 10 to No. 40	2.00 to 0.420
Fine	No. 40 to No. 200	0.420 to 0.074
SILT & CLAY	Below No. 200	Below 0.074

GRAIN SIZE CHART



PLASTICITY CHART

Ninyo & Moore

U.S.C.S. METHOD OF SOIL CLASSIFICATION

DATE DRILLED _____ BORING NO. CALIF. SYMBOLS

GROUND ELEVATION _____ SHEET 1 OF 1

METHOD OF DRILLING _____

DRIVE WEIGHT _____ DROP _____

SAMPLED BY _____ LOGGED BY _____ REVIEWED BY _____

DEPTH (feet)	SAMPLES: Bulk	SAMPLES: Driven	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0								Solid line denotes unit change.
								Dashed line denotes material change.
								Modified split-barrel drive sampler.
								No recovery with modified split-barrel drive sampler.
				♀				Seepage.
5				⏚				Groundwater encountered during drilling.
				⏚				Groundwater measured after drilling.
								Standard Penetration Test (SPT).
								No recovery with a SPT.
			XX/XX					Shelby tube sample. Distance pushed in inches/length of sample recovered in inches.
								No recovery with Shelby tube sampler.
10								Bulk sample.
								Attitudes: Strike/Dip b: Bedding c: Contact j: Joint f: Fracture F: Fault cs: Clay Seam s: Shear bss: Basal Slide Surface sf: Shear Fracture sz: Shear Zone sbs: Sheared Bedding Surface
15								
20								The total depth line is a solid line that is drawn at the bottom of the boring.

Ninyo & Moore

BORING LOG

EXPLANATION OF BORING LOG SYMBOLS

PROJECT NO.	DATE	FIGURE
SYMSAMP	Rev. 1/99	

DATE DRILLED 3/6/02 BORING NO. NM1A

GROUND ELEVATION NA SHEET 1 OF 1

METHOD OF DRILLING Geoprobe 5410

DRIVE WEIGHT NA DROP NA

SAMPLED BY JW LOGGED BY JW REVIEWED BY PAR

DEPTH (feet)	SAMPLES (Bulk / Driven)	BLOWS/FOOT	SAMPLE ID	ORGANIC VAPORS (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0							SM	ALLUVIUM: Moderate brown (5YR 4/4), moist, silty fine SAND.
	Driven		NM1A-5	0				
10	Driven		NM1A-10	0				Moderate yellowish brown (10YR 5/4).
	Driven		NM1A-15	0			SP	Moderate yellowish brown (10YR 5/4), moist, fine SAND.
20	Driven		NM1A-20	0				Pale yellowish brown (10YR 8/2).
	Driven		NM1A-25	0				Grayish orange (10YR 7/4); trace fine gravel.
30	Driven		NM1A-30	0.1				
	Driven		NM1A-35	0				Very pale orange (10YR 8/2); very fine gravel.
40								Total Depth = 35.0 feet. No groundwater encountered. No petroleum hydrocarbon odor or staining noted in samples. Backfilled with bentonite on 3/6/02.

Ninyo & Moore

BORING LOG

Walker Property
Santa Fe Springs, California

PROJECT NO.	DATE	FIGURE
203571003	3/2002	D-1

DATE DRILLED 3/6/02 BORING NO. NM1B

GROUND ELEVATION NA SHEET 1 OF 1

METHOD OF DRILLING Geoprobe 5410

DRIVE WEIGHT NA DROP NA

SAMPLED BY JW LOGGED BY JW REVIEWED BY PAR

DEPTH (feet)	SAMPLES (Bulk / Driven)	BLOWS/FOOT	SAMPLE ID	ORGANIC VAPORS (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0							SM	ALLUVIUM: Moderate brown (5YR 3/4) interbedded with dark reddish brown (10YR 3 4), moist, silty fine SAND.
			NM1B-5	0.1				
10			NMB-10	0				Moderate brown (5Y 4/4).
			NM1B-15	0			SP	Very pale orange (10YR 8/2), moist, fine SAND with trace fine gravel.
20			NM1A-20	0				Total Depth = 20.0 feet. No groundwater encountered. No petroleum hydrocarbon odor or staining noted in samples. Backfilled with bentonite on 3/6/02.
30								
40								

Ninyo & Moore

BORING LOG

Walker Property
Santa Fe Springs, California

PROJECT NO.	DATE	FIGURE
203571003	3/2002	D-2

DATE DRILLED 3/7/02 BORING NO. NM2A

GROUND ELEVATION NA SHEET 1 OF 2

METHOD OF DRILLING Geoprobe 5410

DRIVE WEIGHT NA DROP NA

SAMPLED BY JW LOGGED BY JW REVIEWED BY PAR

DEPTH (feet)	SAMPLES (Bulk / Driven)	BLOWS/FOOT	SAMPLE ID	ORGANIC VAPORS (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0							SM	ALLUVIUM: Moderate brown (5YR 4/4), moist, silty fine SAND.
			NM2A-5	0				
10			NM2A-10	0				
			NM2A-15	0			SP	Moderate yellowish brown (10YR 5/4), moist, fine SAND.
20			NM2A-20	0			SM	Pale yellowish brown (10YR 8/2), moist, silty fine SAND with pale orange (10YR 8/2) bentonite.
			NM2A-25	0			SP	Grayish orange (10YR 7/4), moist, fine SAND.
30			NM2A-30	0				
			NM2A-35	0				Very pale orange (10YR 8/2); trace very fine gravel.
40			NM2A-40	0				

Ninyo & Moore

BORING LOG

Walker Property
Santa Fe Springs, California

PROJECT NO.	DATE	FIGURE
203571003	3/2002	D-3

DATE DRILLED 3/7/02 BORING NO. NM2A

GROUND ELEVATION NA SHEET 2 OF 2

METHOD OF DRILLING Geoprobe 5410

DRIVE WEIGHT NA DROP NA

SAMPLED BY JW LOGGED BY JW REVIEWED BY PAR

DEPTH (feet)	SAMPLES: Bulk	SAMPLES: Driven	BLOWS/FOOT	SAMPLE ID	ORGANIC VAPORS (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
40									Grayish orange (10YR 7/4), moist, fine SAND with trace fine gravel.
									Total Depth = 40.0 feet
									No groundwater encountered.
									No petroleum hydrocarbon odor or staining noted in samples.
									Backfilled with bentonite on 3/7/02.
50									
60									
70									
80									

Ninyo & Moore

BORING LOG

Walker Property
Santa Fe Springs, California

PROJECT NO.	DATE	FIGURE
203571003	3/2002	D-4

DATE DRILLED 3/7/02 BORING NO. NM2B

GROUND ELEVATION NA SHEET 1 OF 1

METHOD OF DRILLING Geoprobe 5410

DRIVE WEIGHT NA DROP NA

SAMPLED BY JW LOGGED BY JW REVIEWED BY PAR

DEPTH (feet)	SAMPLES (Bulk / Driven)	BLOWS/FOOT	SAMPLE ID	ORGANIC VAPORS (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0							SM	ALLUVIUM: Moderate brown (5YR 4/4), moist, silty fine SAND.
			NM2B-5	0				
10			NM2B-10	0				Moderate brown (5YR 4/4) with dark reddish brown (10YR 3/4).
			NM2B-15	0			SP	Moderate yellowish brown (10YR 5/4), moist, fine SAND.
20			NM2B-20	0			SM	Pale yellowish brown (10YR 8/2), moist, silty fine SAND. Total Depth = 20.0 feet. No groundwater encountered. No petroleum hydrocarbon odor or staining noted in samples. Backfilled with bentonite on 3/7/02.
30								
40								

Ninyo & Moore

BORING LOG

Walker Property
Santa Fe Springs, California

PROJECT NO.	DATE	FIGURE
203571003	3/2002	D-5

DATE DRILLED 3/7/02 BORING NO. NM3A

GROUND ELEVATION NA SHEET 1 OF 1

METHOD OF DRILLING Geoprobe 5410

DRIVE WEIGHT NA DROP NA

SAMPLED BY JW LOGGED BY JW REVIEWED BY PAR

DEPTH (feet)	SAMPLES: Bulk	SAMPLES: Driven	BLOWS/FOOT	SAMPLE ID	ORGANIC VAPORS (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0								SM	ALLUVIUM: Moderate brown (5YR 4/4), moist, silty fine SAND.
				NM3A-5	0				
10				NM3A-10	0				
				NM3A-15	0			SP	Grayish orange (10YR 7/4), moist, fine SAND.
20				NM3A-20	0				Very pale orange (10YR 8/2) to grayish orange (10YR 7/4).
				NM3A-25	0				Grayish orange (10YR 7/4) to very pale orange (10YR 8/2), fine SAND with trace fine gravel.
30				NM3A-30	0				@ 30.0' Refusal encountered; hard drilling.
40									Total Depth = 30.0 feet. Refusal encountered during drilling at approximately 30.0 feet. No groundwater encountered. No petroleum hydrocarbon odor or staining noted in samples. Backfilled with bentonite on 3/7/02.

Ninyo & Moore

BORING LOG

Walker Property
Santa Fe Springs, California

PROJECT NO.	DATE	FIGURE
203571003	3/2002	D-6

DATE DRILLED 3/6/02 BORING NO. NM3B

GROUND ELEVATION NA SHEET 1 OF 1

METHOD OF DRILLING Geoprobe 5410

DRIVE WEIGHT NA DROP NA

SAMPLED BY JW LOGGED BY JW REVIEWED BY PAR

DEPTH (feet)	SAMPLES (Bulk / Driven)	BLOWS/FOOT	SAMPLE ID	ORGANIC VAPORS (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0							SM	ALLUVIUM: Moderate brown (5YR 4/4), moist, silty fine SAND.
	Driven		NM3B-5	0.1				
10	Driven		NM3B-10	0				
	Driven		NM3B-15	0			SP	Grayish orange (10YR 7/4), moist, fine SAND.
20	Driven		NM3B-20	0				Very pale orange (10YR 5/2) to grayish orange (10YR 7/4). Total Depth = 20.0 feet. No groundwater encountered. No petroleum hydrocarbon odor or staining noted in samples. Backfilled with bentonite on 3/6/02.
30								
40								

Ninyo & Moore

BORING LOG

Walker Property
Santa Fe Springs, California

PROJECT NO.	DATE	FIGURE
203571003	3/2002	D-7

DATE DRILLED 3/6/02 BORING NO. NM4A

GROUND ELEVATION NA SHEET 1 OF 1

METHOD OF DRILLING Geoprobe 5410

DRIVE WEIGHT NA DROP NA

SAMPLED BY JW LOGGED BY JW REVIEWED BY PAR

DEPTH (feet)	SAMPLES Bulk	SAMPLES Driven	BLOWS/FOOT	SAMPLE ID	ORGANIC VAPORS (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0								SM	ALLUVIUM: Moderate brown (5YR 4/4) to dark reddish brown (10YR 3/4), moist, silty fine SAND
		■		NM4A-5	0				
10		■		NM4A-10	0.2				
		■		NM4A-15	0.1			SP	Grayish orange (10YR 7/4) to very pale orange (10YR 8/2), moist, fine SAND with trace fine gravel.
20		■		NM4A-20	0.1				Grayish orange (10YR 7/4).
		■		NM4A-25	0.2				Grayish orange (10YR 7/4), moist, medium SAND.
30		■		NM4A-30	0.2				Pale yellowish brown (10YR 6/2), moist, fine SAND with trace fine gravel.
		■		NM4A-35	0				Total Depth = 35.0 feet. No groundwater encountered. No petroleum hydrocarbon odor or staining noted in samples. Backfilled with bentonite on 3/6/02.
40									

Ninyo & Moore

BORING LOG

Walker Property
Santa Fe Springs, California

PROJECT NO.	DATE	FIGURE
203571003	3/2002	D-8

DATE DRILLED 3/6/02 BORING NO. NM4B

GROUND ELEVATION NA SHEET 1 OF 1

METHOD OF DRILLING Geoprobe 5410

DRIVE WEIGHT NA DROP NA

SAMPLED BY JW LOGGED BY JW REVIEWED BY PAR

DEPTH (feet)	SAMPLES: Bulk	SAMPLES: Driven	BLOWS/FOOT	SAMPLE ID	ORGANIC VAPORS (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0								SM	ALLUVIUM: Moderate brown (5YR 4/4) to dark reddish brown (10YR 3/4), moist, silty fine SAND.
		■		NM4B-5	0.1				
10		■		NM4B-10	0.1				
		■		NM4B-15	0.2			SP	Pale yellowish brown (10YR 6/2), moist, fine SAND with trace fine gravel.
20		■		NM4B-20	0.1				Total Depth = 20.0 feet. No groundwater encountered. No petroleum hydrocarbon odor or staining noted in samples. Backfilled with bentonite on 3/6/02.
30									
40									

Ninyo & Moore

BORING LOG

Walker Property
Santa Fe Springs, California

PROJECT NO.	DATE	FIGURE
203571003	3/2002	D-9

DATE DRILLED 3/6/02 BORING NO. NM5A

GROUND ELEVATION NA SHEET 1 OF 2

METHOD OF DRILLING Geoprobe 5410

DRIVE WEIGHT NA DROP NA

SAMPLED BY JW LOGGED BY JW REVIEWED BY PAR

DEPTH (feet)	SAMPLES Bulk	SAMPLES Driven	BLOWS/FOOT	SAMPLE ID	ORGANIC VAPORS (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0								SM	ALLUVIUM: Moderate brown (5YR 4/4), moist, silty fine SAND.
				NM5A-5	0				
10				NM5A-10	0				Light brown (5YR 5/6).
				NM5A-15	0				Light brown (5YR 5/6) to moderate reddish brown (10YR 4/6).
20				NM5A-20	0			SP	Grayish orange (10YR 7/4), moist, fine SAND with trace fine gravel.
				NM5A-25	0				Pale yellowish brown (10YR 6/2), moist, fine SAND.
30				NM5A-30	0				Fine sand with trace medium gravel.
				NM5A-35	0.4				Grayish orange (10YR 7/4), moist, fine SAND.
40				NM5A-40	0.2				

Ninyo & Moore

BORING LOG

Walker Property
Santa Fe Springs, California

PROJECT NO.	DATE	FIGURE
203571003	3/2002	D-10

DATE DRILLED 3/6/02 BORING NO. NM5A

GROUND ELEVATION NA SHEET 2 OF 2

METHOD OF DRILLING Geoprobe 5410

DRIVE WEIGHT NA DROP NA

SAMPLED BY JW LOGGED BY JW REVIEWED BY PAR

DEPTH (feet)	SAMPLES (Bulk / Driven)	BLOWS/FOOT	SAMPLE ID	ORGANIC VAPORS (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
40								Grayish orange (10YR 7/4), moist, medium SAND with trace fine gravel.
								Total Depth = 40 feet.
								No groundwater encountered.
								No petroleum hydrocarbon odor or staining noted in samples.
								Backfilled with bentonite on 3/6/02.
50								
60								
70								
80								

Ninyo & Moore

BORING LOG

Walker Property
Santa Fe Springs, California

PROJECT NO.	DATE	FIGURE
203571003	3/2002	D-11

DATE DRILLED 3/6/02 BORING NO. NM5B

GROUND ELEVATION NA SHEET 1 OF 1

METHOD OF DRILLING Geoprobe 5410

DRIVE WEIGHT NA DROP NA

SAMPLED BY JW LOGGED BY JW REVIEWED BY PAR

DEPTH (feet)	SAMPLES Bulk	SAMPLES Driven	BLOWS/FOOT	SAMPLE ID	ORGANIC VAPORS (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0								SM	ALLUVIUM: Moderate brown (5YR 4/4) to light brown (5YR 5/6), moist, silty fine SAND.
		■		NM5B-5	0				
10		■		NM5B-10	0				Pale yellowish brown (10YR 6/2).
		■		NMB5-15	0				Moderate brown (5YR 4/4) to dark reddish brown (10R 3/4).
20		■		NMB5-20	0.1			SP	Very pale orange (10YR 8/2), moist, fine SAND. Total Depth = 20.0 feet. No groundwater encountered. No petroleum hydrocarbon odor or staining in samples. Bacfilled with bentonite on 3/6/02.
30									
40									

Ninyo & Moore

BORING LOG

Walker Property
Santa Fe Springs, California

PROJECT NO.	DATE	FIGURE
203571003	3/2002	D-12

DATE DRILLED 3/6/02 BORING NO. NM6A

GROUND ELEVATION NA SHEET 1 OF 2

METHOD OF DRILLING Geoprobe 5410

DRIVE WEIGHT NA DROP NA

SAMPLED BY JW LOGGED BY JW REVIEWED BY PAR

DEPTH (feet)	SAMPLES: Bulk	SAMPLES: Driven	BLOWS/FOOT	SAMPLE ID	ORGANIC VAPORS (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0								SM	ALLUVIUM: Moderate brown (5YR 4/4), moist, silty fine SAND with trace fine gravel.
				NM6A-5	0				
10				NM6A-10	0				Moderate brown (5YR 3/4).
				NM6A-15	0.3				Grayish orange (10YR 7/4) to moderate reddish brown (10R 4/6).
20				NM6A-20	0			SP	Grayish orange (10YR 7/4) interbedded with very pale orange (10YR 8/2), moist, medium SAND.
				NM6A-25	0.2				Grayish orange (10YR 7/4).
30				NM6A-30	0			SM	Moderate yellowish brown (10YR 5/4) interbedded with moderate reddish brown (10R 4/6), moist, silty medium SAND with trace fine gravel.
				NM6A-35	0				
40				NM6A-40	0				

Ninyo & Moore

BORING LOG

Walker Property
Santa Fe Springs, California

PROJECT NO.	DATE	FIGURE
203571003	3/2002	D-13

DATE DRILLED 3/6/02 BORING NO. NM6A

GROUND ELEVATION NA SHEET 2 OF 2

METHOD OF DRILLING Geoprobe 5410

DRIVE WEIGHT NA DROP NA

SAMPLED BY JW LOGGED BY JW REVIEWED BY PAR

DEPTH (feet)	SAMPLES (Bulk / Driven)	BLOWS/FOOT	SAMPLE ID	ORGANIC VAPORS (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
40							SP	Grayish orange (10YR 7/4), moist, fine SAND with trace medium gravel.
								Total Depth = 40.0 feet.
								No groundwater encountered.
								No petroleum hydrocarbon odor or staining noted in samples.
								Backfilled with bentonite on 3/6/02.
50								
60								
70								
80								

Ninyo & Moore

BORING LOG

Walker Property
Santa Fe Springs, California

PROJECT NO.	DATE	FIGURE
203571003	3/2002	D-14

DATE DRILLED 3/6/02 BORING NO. NM6B

GROUND ELEVATION NA SHEET 1 OF 1

METHOD OF DRILLING Geoprobe 5410

DRIVE WEIGHT NA DROP NA

SAMPLED BY JW LOGGED BY JW REVIEWED BY PAR

DEPTH (feet)	SAMPLES Bulk	SAMPLES Driven	BLOWS/FOOT	SAMPLE ID	ORGANIC VAPORS (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0								SM	ALLUVIUM: Moderate brown (5YR 3/4), interbedded with dark reddish brown (10R 3/ 4), moist, silty fine SAND.
		■		NM6B-5	0.2				
10		■		NM6B-10	0.2				Moderate brown (5YR 4/4).
		■		NM6B-15	0.2			SP	Very pale orange (10YR 8/2), moist, fine SAND with trace fine gravel.
20		■		NM6B-20	0.1				Total Depth = 20.0 feet. No groundwater encountered. No petroleum hydrocarbon odor or staining noted in samples. Backfilled with bentonite on 3/6/02.
30									
40									

Ninyo & Moore

BORING LOG

Walker Property
Santa Fe Springs, California

PROJECT NO.	DATE	FIGURE
203571003	3/2002	D-15

APPENDIX E

APPENDIX E

FIELD PROCEDURES

FIELD PROCEDURES

Drilling and Soil Sampling Procedures

1. Borings were completed using hydraulic push sampling system supplied by a State-licensed drilling contractor. Soil borings were advanced to depths up to 40 feet below the ground surface (bgs). A 1.5-inch-diameter, hollow, stainless steel rod was hydraulically driven into the subsurface to obtain soil samples. Relatively undisturbed soil samples were collected at depths outlined on boring logs. Soil samples were retrieved by retracting the probe rod and sampler to the surface and disassembling the sampler. Collection of soil samples with the hydraulic push system does not produce waste material or leave any structures in the ground.

2. During drilling, soil classification (in general accordance with the Unified Soil Classification System [USCS]), sample type and depth, and related drilling information was recorded on boring logs.

3. Discrete, relatively undisturbed soil samples were collected in industry standard 1.5-inch acetate sleeves. Samples to be chemically analyzed were collected in general accordance with EPA Method No. 5035. A plastic syringe was used to collect approximately 5 grams of soil from the acetate sleeve sample. The soil was ejected into a pre-weighed, laboratory supplied, 40-milliliter, VOA vial containing methanol. Two additional samples were collected using the syringe and ejected into vials containing sodium bisulfate. A new syringe was used for each sampling interval.

4. The sampler was cleaned prior to use and between sampling intervals, using a bristle brush and a detergent solution; this was followed by two tap water rinses and a deionized-water rinse. The sampler was dried by air or with a paper towel prior to being used for sampling.

5. The VOA vials containing the soil samples were placed in sealable plastic bags and stored in an ice chest, which was cooled, using bagged ice, to a temperature of approximately four degrees Celsius.

6. The remaining soil in the acetate tube was used to describe the soil lithology, to observe indications of petroleum hydrocarbon discoloration and/or odor, and to measure volatile organic compounds (VOCs) using an organic vapor meter (OVA) equipped with a photo ionization detector (PID). The calibration of the PID was checked against a hexane gas standard (50 part per million by volume) the day before use. To measure VOCs, portions of the soil from the bottom of the acetate tube were placed in sealable plastic bags, agitated, and set aside to allow organic vapors, if present, to accumulate in the void space (headspace) of the bag. The headspace VOC concentration, if any, was then measured using the PID. The measurements were recorded on the soil-boring log.

7. The borings were backfilled with granular bentonite and hydrated with potable water.

Sample Handling

1. The samples were stored in an ice-filled cooler and delivered to an off-site state-certified laboratory following termination of field activities. Sample handling, transport, and delivery to the laboratory were documented using appropriate chain-of-custody protocol, including the use of chain-of-custody forms.

APPENDIX F

Ninyo & Moore

APPENDIX F

LABORATORY REPORTS

Advanced Technology Laboratories

Print Date: *3/12/02*

CLIENT: Ninyo & Moore
Client Sample ID: NM1A-5
Lab Order: 055717
Project: Walker/USTS, 203571003
Collection Date: 3/6/02 2:50:00 PM
Lab ID: 055717-036B
Matrix: Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS			**EPA 8260B**			
RunID: **MS3_020309A** BatchID: **R02VOCS054**				PrepDate: **3/6/02**		Analyst: JPC
1,1,1,2-Tetrachloroethane	ND	3.9		µg/Kg	0.78	3/9/02
1,1,1-Trichloroethane	ND	3.9		µg/Kg	0.78	3/9/02
1,1,2,2-Tetrachloroethane	ND	3.9		µg/Kg	0.78	3/9/02
1,1,2-Trichloroethane	ND	3.9		µg/Kg	0.78	3/9/02
1,1-Dichloroethane	ND	3.9		µg/Kg	0.78	3/9/02
1,1-Dichloroethene	ND	3.9		µg/Kg	0.78	3/9/02
1,1-Dichloropropene	ND	3.9		µg/Kg	0.78	3/9/02
1,2,3-Trichlorobenzene	ND	3.9		µg/Kg	0.78	3/9/02
1,2,3-Trichloropropane	ND	3.9		µg/Kg	0.78	3/9/02
1,2,4-Trichlorobenzene	ND	3.9		µg/Kg	0.78	3/9/02
1,2,4-Trimethylbenzene	ND	3.9		µg/Kg	0.78	3/9/02
1,2-Dibromo-3-chloropropane	ND	7.8		µg/Kg	0.78	3/9/02
1,2-Dibromoethane	ND	3.9		µg/Kg	0.78	3/9/02
1,2-Dichlorobenzene	ND	3.9		µg/Kg	0.78	3/9/02
1,2-Dichloroethane	ND	3.9		µg/Kg	0.78	3/9/02
1,2-Dichloropropane	ND	3.9		µg/Kg	0.78	3/9/02
1,3,5-Trimethylbenzene	ND	3.9		µg/Kg	0.78	3/9/02
1,3-Dichlorobenzene	ND	3.9		µg/Kg	0.78	3/9/02
1,3-Dichloropropane	ND	3.9		µg/Kg	0.78	3/9/02
1,4-Dichlorobenzene	ND	3.9		µg/Kg	0.78	3/9/02
2,2-Dichloropropane	ND	3.9		µg/Kg	0.78	3/9/02
2-Chlorotoluene	ND	3.9		µg/Kg	0.78	3/9/02
4-Chlorotoluene	ND	3.9		µg/Kg	0.78	3/9/02
4-Isopropyltoluene	ND	3.9		µg/Kg	0.78	3/9/02
Benzene	ND	3.9		µg/Kg	0.78	3/9/02
Bromobenzene	ND	3.9		µg/Kg	0.78	3/9/02
Bromodichloromethane	ND	3.9		µg/Kg	0.78	3/9/02
Bromoform	ND	3.9		µg/Kg	0.78	3/9/02
Bromomethane	5.5	3.9		µg/Kg	0.78	3/9/02
Carbon tetrachloride	ND	3.9		µg/Kg	0.78	3/9/02
Chlorobenzene	ND	3.9		µg/Kg	0.78	3/9/02
Chloroethane	ND	3.9		µg/Kg	0.78	3/9/02
Chloroform	ND	3.9		µg/Kg	0.78	3/9/02
Chloromethane	ND	3.9		µg/Kg	0.78	3/9/02
cis-1,2-Dichloroethene	ND	3.9		µg/Kg	0.78	3/9/02
Dibromochloromethane	ND	3.9		µg/Kg	0.78	3/9/02
Dibromomethane	ND	3.9		µg/Kg	0.78	3/9/02
Dichlorodifluoromethane	ND	3.9		µg/Kg	0.78	3/9/02

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: RPA

Advanced Technology Laboratories 3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Print Date: *3/12/02*

CLIENT: Ninyo & Moore
Client Sample ID: NM1A-5
Lab Order: 055717
Project: Walker/USTS, 203571003
Collection Date: 3/6/02 2:50:00 PM
Lab ID: 055717-036B
Matrix: Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				**EPA 8260B**		
RunID: **MS3_020309A** BatchID: **R02VOCS054**				PrepDate: **3/6/02**		Analyst: **JPC**
Ethylbenzene	ND	3.9		µg/Kg	0.78	3/9/02
Hexachlorobutadiene	ND	3.9		µg/Kg	0.78	3/9/02
Isopropylbenzene	ND	3.9		µg/Kg	0.78	3/9/02
m,p-Xylene	ND	3.9		µg/Kg	0.78	3/9/02
Methylene chloride	ND	3.9		µg/Kg	0.78	3/9/02
MTBE	ND	3.9		µg/Kg	0.78	3/9/02
n-Butylbenzene	ND	3.9		µg/Kg	0.78	3/9/02
n-Propylbenzene	ND	3.9		µg/Kg	0.78	3/9/02
Naphthalene	ND	3.9		µg/Kg	0.78	3/9/02
o-Xylene	ND	3.9		µg/Kg	0.78	3/9/02
sec-Butylbenzene	ND	3.9		µg/Kg	0.78	3/9/02
Styrene	ND	3.9		µg/Kg	0.78	3/9/02
tert-Butylbenzene	ND	3.9		µg/Kg	0.78	3/9/02
Tetrachloroethene	ND	3.9		µg/Kg	0.78	3/9/02
Toluene	ND	3.9		µg/Kg	0.78	3/9/02
trans-1,2-Dichloroethene	ND	3.9		µg/Kg	0.78	3/9/02
Trichloroethene	ND	3.9		µg/Kg	0.78	3/9/02
Trichlorofluoromethane	ND	3.9		µg/Kg	0.78	3/9/02
Vinyl chloride	ND	3.9		µg/Kg	0.78	3/9/02
VOLATILE ORGANIC COMPOUNDS BY GC/MS				**EPA 8260B**		
RunID: **MS3_020309A** BatchID: **R02VOCS054**				PrepDate: **3/6/02**		Analyst: **JPC**
1,2-Dibromoethane	ND	3.9		µg/Kg	0.78	3/9/02
1,2-Dichloroethane	ND	3.9		µg/Kg	0.78	3/9/02
Di-isopropyl ether	ND	3.9		µg/Kg	0.78	3/9/02
Ethyl Tert-butyl ether	ND	3.9		µg/Kg	0.78	3/9/02
Tert-amyl methyl ether	ND	3.9		µg/Kg	0.78	3/9/02
Tert-Butanol	ND	78		µg/Kg	0.78	3/9/02

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: RA

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Print Date: *3/12/02*

CLIENT: Ninyo & Moore
Client Sample ID: NM1A-10
Lab Order: 055717
Project: Walker/USTS, 203571003
Collection Date: 3/6/02 2:55:00 PM
Lab ID: 055717-037B
Matrix: Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS			**EPA 8260B**			
RunID: MS3_020309A BatchID: R02VOCS054				PrepDate: 3/6/02		Analyst: JPC
1,1,1,2-Tetrachloroethane	ND	3.9		µg/Kg	0.78	3/9/02
1,1,1-Trichloroethane	ND	3.9		µg/Kg	0.78	3/9/02
1,1,2,2-Tetrachloroethane	ND	3.9		µg/Kg	0.78	3/9/02
1,1,2-Trichloroethane	ND	3.9		µg/Kg	0.78	3/9/02
1,1-Dichloroethane	ND	3.9		µg/Kg	0.78	3/9/02
1,1-Dichloroethene	ND	3.9		µg/Kg	0.78	3/9/02
1,1-Dichloropropene	ND	3.9		µg/Kg	0.78	3/9/02
1,2,3-Trichlorobenzene	ND	3.9		µg/Kg	0.78	3/9/02
1,2,3-Trichloropropane	ND	3.9		µg/Kg	0.78	3/9/02
1,2,4-Trichlorobenzene	ND	3.9		µg/Kg	0.78	3/9/02
1,2,4-Trimethylbenzene	ND	3.9		µg/Kg	0.78	3/9/02
1,2-Dibromo-3-chloropropane	ND	7.8		µg/Kg	0.78	3/9/02
1,2-Dibromoethane	ND	3.9		µg/Kg	0.78	3/9/02
1,2-Dichlorobenzene	ND	3.9		µg/Kg	0.78	3/9/02
1,2-Dichloroethane	ND	3.9		µg/Kg	0.78	3/9/02
1,2-Dichloropropane	ND	3.9		µg/Kg	0.78	3/9/02
1,3,5-Trimethylbenzene	ND	3.9		µg/Kg	0.78	3/9/02
1,3-Dichlorobenzene	ND	3.9		µg/Kg	0.78	3/9/02
1,3-Dichloropropane	ND	3.9		µg/Kg	0.78	3/9/02
1,4-Dichlorobenzene	ND	3.9		µg/Kg	0.78	3/9/02
2,2-Dichloropropane	ND	3.9		µg/Kg	0.78	3/9/02
2-Chlorotoluene	ND	3.9		µg/Kg	0.78	3/9/02
4-Chlorotoluene	ND	3.9		µg/Kg	0.78	3/9/02
4-Isopropyltoluene	ND	3.9		µg/Kg	0.78	3/9/02
Benzene	ND	3.9		µg/Kg	0.78	3/9/02
Bromobenzene	ND	3.9		µg/Kg	0.78	3/9/02
Bromodichloromethane	ND	3.9		µg/Kg	0.78	3/9/02
Bromoform	ND	3.9		µg/Kg	0.78	3/9/02
Bromomethane	ND	3.9		µg/Kg	0.78	3/9/02
Carbon tetrachloride	ND	3.9		µg/Kg	0.78	3/9/02
Chlorobenzene	ND	3.9		µg/Kg	0.78	3/9/02
Chloroethane	ND	3.9		µg/Kg	0.78	3/9/02
Chloroform	ND	3.9		µg/Kg	0.78	3/9/02
Chloromethane	ND	3.9		µg/Kg	0.78	3/9/02
cis-1,2-Dichloroethene	ND	3.9		µg/Kg	0.78	3/9/02
Dibromochloromethane	ND	3.9		µg/Kg	0.78	3/9/02
Dibromomethane	ND	3.9		µg/Kg	0.78	3/9/02
Dichlorodifluoromethane	ND	3.9		µg/Kg	0.78	3/9/02

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: RA

Advanced Technology Laboratories 3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Print Date: *3/12/02*

CLIENT: Ninyo & Moore
Client Sample ID: NM1A-10
Lab Order: 055717
Project: Walker/USTS, 203571003
Collection Date: 3/6/02 2:55:00 PM
Lab ID: 055717-037B
Matrix: Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS			**EPA 8260B**			
RunID: **MS3_020309A** BatchID: **R02VOCS054**				PrepDate: **3/6/02**		Analyst: JPC
Ethylbenzene	ND	3.9		µg/Kg	0.78	3/9/02
Hexachlorobutadiene	ND	3.9		µg/Kg	0.78	3/9/02
Isopropylbenzene	ND	3.9		µg/Kg	0.78	3/9/02
m,p-Xylene	ND	3.9		µg/Kg	0.78	3/9/02
Methylene chloride	ND	3.9		µg/Kg	0.78	3/9/02
MTBE	ND	3.9		µg/Kg	0.78	3/9/02
n-Butylbenzene	ND	3.9		µg/Kg	0.78	3/9/02
n-Propylbenzene	ND	3.9		µg/Kg	0.78	3/9/02
Naphthalene	ND	3.9		µg/Kg	0.78	3/9/02
o-Xylene	ND	3.9		µg/Kg	0.78	3/9/02
sec-Butylbenzene	ND	3.9		µg/Kg	0.78	3/9/02
Styrene	ND	3.9		µg/Kg	0.78	3/9/02
tert-Butylbenzene	ND	3.9		µg/Kg	0.78	3/9/02
Tetrachloroethene	ND	3.9		µg/Kg	0.78	3/9/02
Toluene	ND	3.9		µg/Kg	0.78	3/9/02
trans-1,2-Dichloroethene	ND	3.9		µg/Kg	0.78	3/9/02
Trichloroethene	ND	3.9		µg/Kg	0.78	3/9/02
Trichlorofluoromethane	ND	3.9		µg/Kg	0.78	3/9/02
Vinyl chloride	ND	3.9		µg/Kg	0.78	3/9/02
VOLATILE ORGANIC COMPOUNDS BY GC/MS			**EPA 8260B**			
RunID: **MS3_020309A** BatchID: **R02VOCS054**				PrepDate: **3/6/02**		Analyst: JPC
1,2-Dibromoethane	ND	3.9		µg/Kg	0.78	3/9/02
1,2-Dichloroethane	ND	3.9		µg/Kg	0.78	3/9/02
Di-isopropyl ether	ND	3.9		µg/Kg	0.78	3/9/02
Ethyl Tert-butyl ether	ND	3.9		µg/Kg	0.78	3/9/02
Tert-amyl methyl ether	ND	3.9		µg/Kg	0.78	3/9/02
Tert-Butanol	ND	78		µg/Kg	0.78	3/9/02

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored, Highly Reactive

Initials: RA

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Print Date: *3/12/02*

CLIENT: Ninyo & Moore
Client Sample ID: NM1A-20
Lab Order: 055717
Project: Walker/USTS, 203571003
Collection Date: 3/6/02 3:05:00 PM
Lab ID: 055717-039B
Matrix: Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				**EPA 8260B**		
RunID: **MS3_020309A** BatchID: **R02VOCS054**				PrepDate: **3/6/02**		Analyst: **JPC**
1,1,1,2-Tetrachloroethane	ND	5.0		µg/Kg	0.99	3/9/02
1,1,1-Trichloroethane	ND	5.0		µg/Kg	0.99	3/9/02
1,1,2,2-Tetrachloroethane	ND	5.0		µg/Kg	0.99	3/9/02
1,1,2-Trichloroethane	ND	5.0		µg/Kg	0.99	3/9/02
1,1-Dichloroethane	ND	5.0		µg/Kg	0.99	3/9/02
1,1-Dichloroethene	ND	5.0		µg/Kg	0.99	3/9/02
1,1-Dichloropropene	ND	5.0		µg/Kg	0.99	3/9/02
1,2,3-Trichlorobenzene	ND	5.0		µg/Kg	0.99	3/9/02
1,2,3-Trichloropropane	ND	5.0		µg/Kg	0.99	3/9/02
1,2,4-Trichlorobenzene	ND	5.0		µg/Kg	0.99	3/9/02
1,2,4-Trimethylbenzene	ND	5.0		µg/Kg	0.99	3/9/02
1,2-Dibromo-3-chloropropane	ND	9.9		µg/Kg	0.99	3/9/02
1,2-Dibromoethane	ND	5.0		µg/Kg	0.99	3/9/02
1,2-Dichlorobenzene	ND	5.0		µg/Kg	0.99	3/9/02
1,2-Dichloroethane	ND	5.0		µg/Kg	0.99	3/9/02
1,2-Dichloropropane	ND	5.0		µg/Kg	0.99	3/9/02
1,3,5-Trimethylbenzene	ND	5.0		µg/Kg	0.99	3/9/02
1,3-Dichlorobenzene	ND	5.0		µg/Kg	0.99	3/9/02
1,3-Dichloropropane	ND	5.0		µg/Kg	0.99	3/9/02
1,4-Dichlorobenzene	ND	5.0		µg/Kg	0.99	3/9/02
2,2-Dichloropropane	ND	5.0		µg/Kg	0.99	3/9/02
2-Chlorotoluene	ND	5.0		µg/Kg	0.99	3/9/02
4-Chlorotoluene	ND	5.0		µg/Kg	0.99	3/9/02
4-Isopropyltoluene	ND	5.0		µg/Kg	0.99	3/9/02
Benzene	ND	5.0		µg/Kg	0.99	3/9/02
Bromobenzene	ND	5.0		µg/Kg	0.99	3/9/02
Bromodichloromethane	ND	5.0		µg/Kg	0.99	3/9/02
Bromoform	ND	5.0		µg/Kg	0.99	3/9/02
Bromomethane	ND	5.0		µg/Kg	0.99	3/9/02
Carbon tetrachloride	ND	5.0		µg/Kg	0.99	3/9/02
Chlorobenzene	ND	5.0		µg/Kg	0.99	3/9/02
Chloroethane	ND	5.0		µg/Kg	0.99	3/9/02
Chloroform	ND	5.0		µg/Kg	0.99	3/9/02
Chloromethane	ND	5.0		µg/Kg	0.99	3/9/02
cis-1,2-Dichloroethene	ND	5.0		µg/Kg	0.99	3/9/02
Dibromochloromethane	ND	5.0		µg/Kg	0.99	3/9/02
Dibromomethane	ND	5.0		µg/Kg	0.99	3/9/02
Dichlorodifluoromethane	ND	5.0		µg/Kg	0.99	3/9/02

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored, Highly Reactive

Initials: RA

Advanced Technology Laboratories 3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Print Date: *3/12/02*

CLIENT: Ninyo & Moore
Client Sample ID: NM1A-20
Lab Order: 055717
Project: Walker/USTS, 203571003
Collection Date: 3/6/02 3:05:00 PM
Lab ID: 055717-039B
Matrix: Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS			**EPA 8260B**			
RunID: **MS3_020309A** BatchID: **R02VOCS054**			PrepDate: **3/6/02**		Analyst: **JPC**	
Ethylbenzene	ND	5.0		µg/Kg	0.99	3/9/02
Hexachlorobutadiene	ND	5.0		µg/Kg	0.99	3/9/02
Isopropylbenzene	ND	5.0		µg/Kg	0.99	3/9/02
m,p-Xylene	ND	5.0		µg/Kg	0.99	3/9/02
Methylene chloride	ND	5.0		µg/Kg	0.99	3/9/02
MTBE	ND	5.0		µg/Kg	0.99	3/9/02
n-Butylbenzene	ND	5.0		µg/Kg	0.99	3/9/02
n-Propylbenzene	ND	5.0		µg/Kg	0.99	3/9/02
Naphthalene	ND	5.0		µg/Kg	0.99	3/9/02
o-Xylene	ND	5.0		µg/Kg	0.99	3/9/02
sec-Butylbenzene	ND	5.0		µg/Kg	0.99	3/9/02
Styrene	ND	5.0		µg/Kg	0.99	3/9/02
tert-Butylbenzene	ND	5.0		µg/Kg	0.99	3/9/02
Tetrachloroethene	ND	5.0		µg/Kg	0.99	3/9/02
Toluene	ND	5.0		µg/Kg	0.99	3/9/02
trans-1,2-Dichloroethene	ND	5.0		µg/Kg	0.99	3/9/02
Trichloroethene	ND	5.0		µg/Kg	0.99	3/9/02
Trichlorofluoromethane	ND	5.0		µg/Kg	0.99	3/9/02
Vinyl chloride	ND	5.0		µg/Kg	0.99	3/9/02
VOLATILE ORGANIC COMPOUNDS BY GC/MS			**EPA 8260B**			
RunID: **MS3_020309A** BatchID: **R02VOCS054**			PrepDate: **3/6/02**		Analyst: **JPC**	
1,2-Dibromoethane	ND	5.0		µg/Kg	0.99	3/9/02
1,2-Dichloroethane	ND	5.0		µg/Kg	0.99	3/9/02
Di-Isopropyl ether	ND	5.0		µg/Kg	0.99	3/9/02
Ethyl Tert-butyl ether	ND	5.0		µg/Kg	0.99	3/9/02
Tert-amyl methyl ether	ND	5.0		µg/Kg	0.99	3/9/02
Tert-Butanol	ND	99		µg/Kg	0.99	3/9/02

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: RA

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Print Date: *3/12/02*

CLIENT: Ninyo & Moore
Client Sample ID: NM1A-30
Lab Order: 055717
Project: Walker/USTS, 203571003
Collection Date: 3/6/02 3:26:00 PM
Lab ID: 055717-041B
Matrix: Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS			**EPA 8260B**			
RunID: **MS1_020309A** BatchID: **P02VOCS042**				PrepDate: **3/9/02**		Analyst: **JPC**
1,1,1,2-Tetrachloroethane	ND	5.3		µg/Kg	1.1	3/9/02
1,1,1-Trichloroethane	ND	5.3		µg/Kg	1.1	3/9/02
1,1,2,2-Tetrachloroethane	ND	5.3		µg/Kg	1.1	3/9/02
1,1,2-Trichloroethane	ND	5.3		µg/Kg	1.1	3/9/02
1,1-Dichloroethane	ND	5.3		µg/Kg	1.1	3/9/02
1,1-Dichloroethene	ND	5.3		µg/Kg	1.1	3/9/02
1,1-Dichloropropene	ND	5.3		µg/Kg	1.1	3/9/02
1,2,3-Trichlorobenzene	ND	5.3		µg/Kg	1.1	3/9/02
1,2,3-Trichloropropane	ND	5.3		µg/Kg	1.1	3/9/02
1,2,4-Trichlorobenzene	ND	5.3		µg/Kg	1.1	3/9/02
1,2,4-Trimethylbenzene	ND	5.3		µg/Kg	1.1	3/9/02
1,2-Dibromo-3-chloropropane	ND	11		µg/Kg	1.1	3/9/02
1,2-Dibromoethane	ND	5.3		µg/Kg	1.1	3/9/02
1,2-Dichlorobenzene	ND	5.3		µg/Kg	1.1	3/9/02
1,2-Dichloroethane	ND	5.3		µg/Kg	1.1	3/9/02
1,2-Dichloropropane	ND	5.3		µg/Kg	1.1	3/9/02
1,3,5-Trimethylbenzene	ND	5.3		µg/Kg	1.1	3/9/02
1,3-Dichlorobenzene	ND	5.3		µg/Kg	1.1	3/9/02
1,3-Dichloropropane	ND	5.3		µg/Kg	1.1	3/9/02
1,4-Dichlorobenzene	ND	5.3		µg/Kg	1.1	3/9/02
2,2-Dichloropropane	ND	5.3		µg/Kg	1.1	3/9/02
2-Chlorotoluene	ND	5.3		µg/Kg	1.1	3/9/02
4-Chlorotoluene	ND	5.3		µg/Kg	1.1	3/9/02
4-Isopropyltoluene	ND	5.3		µg/Kg	1.1	3/9/02
Benzene	ND	5.3		µg/Kg	1.1	3/9/02
Bromobenzene	ND	5.3		µg/Kg	1.1	3/9/02
Bromodichloromethane	ND	5.3		µg/Kg	1.1	3/9/02
Bromoform	ND	5.3		µg/Kg	1.1	3/9/02
Bromomethane	ND	5.3		µg/Kg	1.1	3/9/02
Carbon tetrachloride	ND	5.3		µg/Kg	1.1	3/9/02
Chlorobenzene	ND	5.3		µg/Kg	1.1	3/9/02
Chloroethane	ND	5.3		µg/Kg	1.1	3/9/02
Chloroform	ND	5.3		µg/Kg	1.1	3/9/02
Chloromethane	ND	5.3		µg/Kg	1.1	3/9/02
cis-1,2-Dichloroethene	ND	5.3		µg/Kg	1.1	3/9/02
Dibromochloromethane	ND	5.3		µg/Kg	1.1	3/9/02
Dibromomethane	ND	5.3		µg/Kg	1.1	3/9/02
Dichlorodifluoromethane	ND	5.3		µg/Kg	1.1	3/9/02

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: RA

Advanced Technology Laboratories 3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Print Date: *3/12/02*

CLIENT: Ninyo & Moore **Client Sample ID:** NM1A-30
Lab Order: 055717
Project: Walker/USTS, 203571003 **Collection Date:** 3/6/02 3:26:00 PM
Lab ID: 055717-041B **Matrix:** Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS			**EPA 8260B**			
RunID: **MS1_020309A** BatchID: **P02VOCS042**				PrepDate: **3/9/02**		Analyst: **JPC**
Ethylbenzene	ND	5.3		µg/Kg	1.1	3/9/02
Hexachlorobutadiene	ND	5.3		µg/Kg	1.1	3/9/02
Isopropylbenzene	ND	5.3		µg/Kg	1.1	3/9/02
m,p-Xylene	ND	5.3		µg/Kg	1.1	3/9/02
Methylene chloride	ND	5.3		µg/Kg	1.1	3/9/02
MTBE	ND	5.3		µg/Kg	1.1	3/9/02
n-Butylbenzene	ND	5.3		µg/Kg	1.1	3/9/02
n-Propylbenzene	ND	5.3		µg/Kg	1.1	3/9/02
Naphthalene	ND	5.3		µg/Kg	1.1	3/9/02
o-Xylene	ND	5.3		µg/Kg	1.1	3/9/02
sec-Butylbenzene	ND	5.3		µg/Kg	1.1	3/9/02
Styrene	ND	5.3		µg/Kg	1.1	3/9/02
tert-Butylbenzene	ND	5.3		µg/Kg	1.1	3/9/02
Tetrachloroethene	ND	5.3		µg/Kg	1.1	3/9/02
Toluene	ND	5.3		µg/Kg	1.1	3/9/02
trans-1,2-Dichloroethene	ND	5.3		µg/Kg	1.1	3/9/02
Trichloroethene	ND	5.3		µg/Kg	1.1	3/9/02
Trichlorofluoromethane	ND	5.3		µg/Kg	1.1	3/9/02
Vinyl chloride	ND	5.3		µg/Kg	1.1	3/9/02
VOLATILE ORGANIC COMPOUNDS BY GC/MS			**EPA 8260B**			
RunID: **MS1_020309A** BatchID: **P02VOCS042**				PrepDate: **3/9/02**		Analyst: **JPC**
1,2-Dibromoethane	ND	5.3		µg/Kg	1.1	3/9/02
1,2-Dichloroethane	ND	5.3		µg/Kg	1.1	3/9/02
Di-isopropyl ether	ND	5.3		µg/Kg	1.1	3/9/02
Ethyl Tert-butyl ether	ND	5.3		µg/Kg	1.1	3/9/02
Tert-amyl methyl ether	ND	5.3		µg/Kg	1.1	3/9/02
Tert-Butanol	ND	110		µg/Kg	1.1	3/9/02

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: RA

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Print Date: *3/12/02*

CLIENT: Ninyo & Moore
Client Sample ID: NM1A-35
Lab Order: 055731
Project: Walker/USTS, 203571003
Collection Date: 3/7/02 10:50:00 AM
Lab ID: 055731-019B
Matrix: Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				**EPA 8260B**		
RunID: **MS3_020311A** BatchID: **R02VOCS055**				PrepDate: **3/7/02**		Analyst: **JPC**
1,1,1,2-Tetrachloroethane	ND	5.3		µg/Kg	1.1	3/11/02
1,1,1-Trichloroethane	ND	5.3		µg/Kg	1.1	3/11/02
1,1,2,2-Tetrachloroethane	ND	5.3		µg/Kg	1.1	3/11/02
1,1,2-Trichloroethane	ND	5.3		µg/Kg	1.1	3/11/02
1,1-Dichloroethane	ND	5.3		µg/Kg	1.1	3/11/02
1,1-Dichloroethene	ND	5.3		µg/Kg	1.1	3/11/02
1,1-Dichloropropene	ND	5.3		µg/Kg	1.1	3/11/02
1,2,3-Trichlorobenzene	ND	5.3		µg/Kg	1.1	3/11/02
1,2,3-Trichloropropane	ND	5.3		µg/Kg	1.1	3/11/02
1,2,4-Trichlorobenzene	ND	5.3		µg/Kg	1.1	3/11/02
1,2,4-Trimethylbenzene	ND	5.3		µg/Kg	1.1	3/11/02
1,2-Dibromo-3-chloropropane	ND	11		µg/Kg	1.1	3/11/02
1,2-Dibromoethane	ND	5.3		µg/Kg	1.1	3/11/02
1,2-Dichlorobenzene	ND	5.3		µg/Kg	1.1	3/11/02
1,2-Dichloroethane	ND	5.3		µg/Kg	1.1	3/11/02
1,2-Dichloropropane	ND	5.3		µg/Kg	1.1	3/11/02
1,3,5-Trimethylbenzene	ND	5.3		µg/Kg	1.1	3/11/02
1,3-Dichlorobenzene	ND	5.3		µg/Kg	1.1	3/11/02
1,3-Dichloropropane	ND	5.3		µg/Kg	1.1	3/11/02
1,4-Dichlorobenzene	ND	5.3		µg/Kg	1.1	3/11/02
2,2-Dichloropropane	ND	5.3		µg/Kg	1.1	3/11/02
2-Chlorotoluene	ND	5.3		µg/Kg	1.1	3/11/02
4-Chlorotoluene	ND	5.3		µg/Kg	1.1	3/11/02
4-Isopropyltoluene	ND	5.3		µg/Kg	1.1	3/11/02
Benzene	ND	5.3		µg/Kg	1.1	3/11/02
Bromobenzene	ND	5.3		µg/Kg	1.1	3/11/02
Bromodichloromethane	ND	5.3		µg/Kg	1.1	3/11/02
Bromoform	ND	5.3		µg/Kg	1.1	3/11/02
Bromomethane	ND	5.3		µg/Kg	1.1	3/11/02
Carbon tetrachloride	ND	5.3		µg/Kg	1.1	3/11/02
Chlorobenzene	ND	5.3		µg/Kg	1.1	3/11/02
Chloroethane	ND	5.3		µg/Kg	1.1	3/11/02
Chloroform	ND	5.3		µg/Kg	1.1	3/11/02
Chloromethane	ND	5.3		µg/Kg	1.1	3/11/02
cis-1,2-Dichloroethene	ND	5.3		µg/Kg	1.1	3/11/02
Dibromochloromethane	ND	5.3		µg/Kg	1.1	3/11/02
Dibromomethane	ND	5.3		µg/Kg	1.1	3/11/02
Dichlorodifluoromethane	ND	5.3		µg/Kg	1.1	3/11/02

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: RA

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Print Date: *3/12/02*

CLIENT: Ninyo & Moore
Client Sample ID: NM1A-35
Lab Order: 055731
Project: Walker/USTS, 203571003
Collection Date: 3/7/02 10:50:00 AM
Lab ID: 055731-019B
Matrix: Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				**EPA 8260B**		
RunID: **MS3_020311A** BatchID: **R02VOCS055**				PrepDate: **3/7/02**		Analyst: **JPC**
Ethylbenzene	ND	5.3		µg/Kg	1.1	3/11/02
Hexachlorobutadiene	ND	5.3		µg/Kg	1.1	3/11/02
Isopropylbenzene	ND	5.3		µg/Kg	1.1	3/11/02
m,p-Xylene	ND	5.3		µg/Kg	1.1	3/11/02
Methylene chloride	ND	5.3		µg/Kg	1.1	3/11/02
MTBE	ND	5.3		µg/Kg	1.1	3/11/02
n-Butylbenzene	ND	5.3		µg/Kg	1.1	3/11/02
n-Propylbenzene	ND	5.3		µg/Kg	1.1	3/11/02
Naphthalene	ND	5.3		µg/Kg	1.1	3/11/02
o-Xylene	ND	5.3		µg/Kg	1.1	3/11/02
sec-Butylbenzene	ND	5.3		µg/Kg	1.1	3/11/02
Styrene	ND	5.3		µg/Kg	1.1	3/11/02
tert-Butylbenzene	ND	5.3		µg/Kg	1.1	3/11/02
Tetrachloroethene	ND	5.3		µg/Kg	1.1	3/11/02
Toluene	ND	5.3		µg/Kg	1.1	3/11/02
trans-1,2-Dichloroethene	ND	5.3		µg/Kg	1.1	3/11/02
Trichloroethene	ND	5.3		µg/Kg	1.1	3/11/02
Trichlorofluoromethane	ND	5.3		µg/Kg	1.1	3/11/02
Vinyl chloride	ND	5.3		µg/Kg	1.1	3/11/02
VOLATILE ORGANIC COMPOUNDS BY GC/MS				**EPA 8260B**		
RunID: **MS3_020311A** BatchID: **R02VOCS055**				PrepDate: **3/7/02**		Analyst: **JPC**
1,2-Dibromoethane	ND	5.3		µg/Kg	1.1	3/11/02
1,2-Dichloroethane	ND	5.3		µg/Kg	1.1	3/11/02
Di-isopropyl ether	ND	5.3		µg/Kg	1.1	3/11/02
Ethyl Tert-butyl ether	ND	5.3		µg/Kg	1.1	3/11/02
Tert-amyl methyl ether	ND	5.3		µg/Kg	1.1	3/11/02
Tert-Butanol	ND	110		µg/Kg	1.1	3/11/02

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored, Highly Reactive

Initials: RA

Advanced Technology Laboratories 3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Print Date: *3/12/02*

CLIENT: Ninyo & Moore
Client Sample ID: NM1B-5
Lab Order: 055717
Project: Walker/USTS, 203571003
Collection Date: 3/6/02 3:35:00 PM
Lab ID: 055717-042B
Matrix: Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS			**EPA 8260B**			
RunID: **MS1_020309A** BatchID: **P02VOCS042**				PrepDate: **3/9/02**		Analyst: **JPC**
1,1,1,2-Tetrachloroethane	ND	3.6		µg/Kg	0.72	3/9/02
1,1,1-Trichloroethane	ND	3.6		µg/Kg	0.72	3/9/02
1,1,2,2-Tetrachloroethane	ND	3.6		µg/Kg	0.72	3/9/02
1,1,2-Trichloroethane	ND	3.6		µg/Kg	0.72	3/9/02
1,1-Dichloroethane	ND	3.6		µg/Kg	0.72	3/9/02
1,1-Dichloroethene	ND	3.6		µg/Kg	0.72	3/9/02
1,1-Dichloropropene	ND	3.6		µg/Kg	0.72	3/9/02
1,2,3-Trichlorobenzene	ND	3.6		µg/Kg	0.72	3/9/02
1,2,3-Trichloropropane	ND	3.6		µg/Kg	0.72	3/9/02
1,2,4-Trichlorobenzene	ND	3.6		µg/Kg	0.72	3/9/02
1,2,4-Trimethylbenzene	ND	3.6		µg/Kg	0.72	3/9/02
1,2-Dibromo-3-chloropropane	ND	7.2		µg/Kg	0.72	3/9/02
1,2-Dibromoethane	ND	3.6		µg/Kg	0.72	3/9/02
1,2-Dichlorobenzene	ND	3.6		µg/Kg	0.72	3/9/02
1,2-Dichloroethane	ND	3.6		µg/Kg	0.72	3/9/02
1,2-Dichloropropane	ND	3.6		µg/Kg	0.72	3/9/02
1,3,5-Trimethylbenzene	ND	3.6		µg/Kg	0.72	3/9/02
1,3-Dichlorobenzene	ND	3.6		µg/Kg	0.72	3/9/02
1,3-Dichloropropane	ND	3.6		µg/Kg	0.72	3/9/02
1,4-Dichlorobenzene	ND	3.6		µg/Kg	0.72	3/9/02
2,2-Dichloropropane	ND	3.6		µg/Kg	0.72	3/9/02
2-Chlorotoluene	ND	3.6		µg/Kg	0.72	3/9/02
4-Chlorotoluene	ND	3.6		µg/Kg	0.72	3/9/02
4-Isopropyltoluene	ND	3.6		µg/Kg	0.72	3/9/02
Benzene	ND	3.6		µg/Kg	0.72	3/9/02
Bromobenzene	ND	3.6		µg/Kg	0.72	3/9/02
Bromodichloromethane	ND	3.6		µg/Kg	0.72	3/9/02
Bromoform	ND	3.6		µg/Kg	0.72	3/9/02
Bromomethane	ND	3.6		µg/Kg	0.72	3/9/02
Carbon tetrachloride	ND	3.6		µg/Kg	0.72	3/9/02
Chlorobenzene	ND	3.6		µg/Kg	0.72	3/9/02
Chloroethane	ND	3.6		µg/Kg	0.72	3/9/02
Chloroform	ND	3.6		µg/Kg	0.72	3/9/02
Chloromethane	ND	3.6		µg/Kg	0.72	3/9/02
cis-1,2-Dichloroethene	ND	3.6		µg/Kg	0.72	3/9/02
Dibromochloromethane	ND	3.6		µg/Kg	0.72	3/9/02
Dibromomethane	ND	3.6		µg/Kg	0.72	3/9/02
Dichlorodifluoromethane	ND	3.6		µg/Kg	0.72	3/9/02

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored, Highly Reactive

Initials: RA

Advanced Technology Laboratories 3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Print Date: *3/12/02*

CLIENT: Ninyo & Moore
Client Sample ID: NM1B-5
Lab Order: 055717
Project: Walker/USTS, 203571003
Collection Date: 3/6/02 3:35:00 PM
Lab ID: 055717-042B
Matrix: Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				**EPA 8260B**		
RunID: **MS1_020309A** BatchID: **P02VOCS042**				PrepDate: **3/9/02**		Analyst: **JPC**
Ethylbenzene	ND	3.6		µg/Kg	0.72	3/9/02
Hexachlorobutadiene	ND	3.6		µg/Kg	0.72	3/9/02
Isopropylbenzene	ND	3.6		µg/Kg	0.72	3/9/02
m,p-Xylene	ND	3.6		µg/Kg	0.72	3/9/02
Methylene chloride	ND	3.6		µg/Kg	0.72	3/9/02
MTBE	ND	3.6		µg/Kg	0.72	3/9/02
n-Butylbenzene	ND	3.6		µg/Kg	0.72	3/9/02
n-Propylbenzene	ND	3.6		µg/Kg	0.72	3/9/02
Naphthalene	ND	3.6		µg/Kg	0.72	3/9/02
o-Xylene	ND	3.6		µg/Kg	0.72	3/9/02
sec-Butylbenzene	ND	3.6		µg/Kg	0.72	3/9/02
Styrene	ND	3.6		µg/Kg	0.72	3/9/02
tert-Butylbenzene	ND	3.6		µg/Kg	0.72	3/9/02
Tetrachloroethene	ND	3.6		µg/Kg	0.72	3/9/02
Toluene	ND	3.6		µg/Kg	0.72	3/9/02
trans-1,2-Dichloroethene	ND	3.6		µg/Kg	0.72	3/9/02
Trichloroethene	ND	3.6		µg/Kg	0.72	3/9/02
Trichlorofluoromethane	ND	3.6		µg/Kg	0.72	3/9/02
Vinyl chloride	ND	3.6		µg/Kg	0.72	3/9/02
VOLATILE ORGANIC COMPOUNDS BY GC/MS				**EPA 8260B**		
RunID: **MS1_020309A** BatchID: **P02VOCS042**				PrepDate: **3/9/02**		Analyst: **JPC**
1,2-Dibromoethane	ND	3.6		µg/Kg	0.72	3/9/02
1,2-Dichloroethane	ND	3.6		µg/Kg	0.72	3/9/02
Di-isopropyl ether	ND	3.6		µg/Kg	0.72	3/9/02
Ethyl Tert-butyl ether	ND	3.6		µg/Kg	0.72	3/9/02
Tert-amyl methyl ether	ND	3.6		µg/Kg	0.72	3/9/02
Tert-Butanol	ND	72		µg/Kg	0.72	3/9/02

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: RA

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Print Date: *3/12/02*

CLIENT: Ninyo & Moore **Client Sample ID:** NM1B-10
Lab Order: 055717
Project: Walker/USTS, 203571003 **Collection Date:** 3/6/02 3:40:00 PM
Lab ID: 055717-043B **Matrix:** Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS			**EPA 8260B**			
RunID: **MS1_020309A** BatchID: **P02VOCS042**				PrepDate: **3/9/02**		Analyst: **JPC**
1,1,1,2-Tetrachloroethane	ND	4.2		µg/Kg	0.83	3/9/02
1,1,1-Trichloroethane	ND	4.2		µg/Kg	0.83	3/9/02
1,1,2,2-Tetrachloroethane	ND	4.2		µg/Kg	0.83	3/9/02
1,1,2-Trichloroethane	ND	4.2		µg/Kg	0.83	3/9/02
1,1-Dichloroethane	ND	4.2		µg/Kg	0.83	3/9/02
1,1-Dichloroethene	ND	4.2		µg/Kg	0.83	3/9/02
1,1-Dichloropropene	ND	4.2		µg/Kg	0.83	3/9/02
1,2,3-Trichlorobenzene	ND	4.2		µg/Kg	0.83	3/9/02
1,2,3-Trichloropropane	ND	4.2		µg/Kg	0.83	3/9/02
1,2,4-Trichlorobenzene	ND	4.2		µg/Kg	0.83	3/9/02
1,2,4-Trimethylbenzene	ND	4.2		µg/Kg	0.83	3/9/02
1,2-Dibromo-3-chloropropane	ND	8.3		µg/Kg	0.83	3/9/02
1,2-Dibromoethane	ND	4.2		µg/Kg	0.83	3/9/02
1,2-Dichlorobenzene	ND	4.2		µg/Kg	0.83	3/9/02
1,2-Dichloroethane	ND	4.2		µg/Kg	0.83	3/9/02
1,2-Dichloropropane	ND	4.2		µg/Kg	0.83	3/9/02
1,3,5-Trimethylbenzene	ND	4.2		µg/Kg	0.83	3/9/02
1,3-Dichlorobenzene	ND	4.2		µg/Kg	0.83	3/9/02
1,3-Dichloropropane	ND	4.2		µg/Kg	0.83	3/9/02
1,4-Dichlorobenzene	ND	4.2		µg/Kg	0.83	3/9/02
2,2-Dichloropropane	ND	4.2		µg/Kg	0.83	3/9/02
2-Chlorotoluene	ND	4.2		µg/Kg	0.83	3/9/02
4-Chlorotoluene	ND	4.2		µg/Kg	0.83	3/9/02
4-Isopropyltoluene	ND	4.2		µg/Kg	0.83	3/9/02
Benzene	ND	4.2		µg/Kg	0.83	3/9/02
Bromobenzene	ND	4.2		µg/Kg	0.83	3/9/02
Bromodichloromethane	ND	4.2		µg/Kg	0.83	3/9/02
Bromoform	ND	4.2		µg/Kg	0.83	3/9/02
Bromomethane	ND	4.2		µg/Kg	0.83	3/9/02
Carbon tetrachloride	ND	4.2		µg/Kg	0.83	3/9/02
Chlorobenzene	ND	4.2		µg/Kg	0.83	3/9/02
Chloroethane	ND	4.2		µg/Kg	0.83	3/9/02
Chloroform	ND	4.2		µg/Kg	0.83	3/9/02
Chloromethane	ND	4.2		µg/Kg	0.83	3/9/02
cis-1,2-Dichloroethene	ND	4.2		µg/Kg	0.83	3/9/02
Dibromochloromethane	ND	4.2		µg/Kg	0.83	3/9/02
Dibromomethane	ND	4.2		µg/Kg	0.83	3/9/02
Dichlorodifluoromethane	ND	4.2		µg/Kg	0.83	3/9/02

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: RA

Advanced Technology Laboratories 3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Print Date: *3/12/02*

CLIENT: Ninyo & Moore
Client Sample ID: NM1B-10
Lab Order: 055717
Project: Walker/USTS, 203571003
Collection Date: 3/6/02 3:40:00 PM
Lab ID: 055717-043B
Matrix: Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS			**EPA 8260B**			
RunID: **MS1_020309A** BatchID: **P02VOCS042**				PrepDate: **3/9/02**		Analyst: JPC
Ethylbenzene	ND	4.2		µg/Kg	0.83	3/9/02
Hexachlorobutadiene	ND	4.2		µg/Kg	0.83	3/9/02
Isopropylbenzene	ND	4.2		µg/Kg	0.83	3/9/02
m,p-Xylene	ND	4.2		µg/Kg	0.83	3/9/02
Methylene chloride	ND	4.2		µg/Kg	0.83	3/9/02
MTBE	ND	4.2		µg/Kg	0.83	3/9/02
n-Butylbenzene	ND	4.2		µg/Kg	0.83	3/9/02
n-Propylbenzene	ND	4.2		µg/Kg	0.83	3/9/02
Naphthalene	ND	4.2		µg/Kg	0.83	3/9/02
o-Xylene	ND	4.2		µg/Kg	0.83	3/9/02
sec-Butylbenzene	ND	4.2		µg/Kg	0.83	3/9/02
Styrene	ND	4.2		µg/Kg	0.83	3/9/02
tert-Butylbenzene	ND	4.2		µg/Kg	0.83	3/9/02
Tetrachloroethene	ND	4.2		µg/Kg	0.83	3/9/02
Toluene	ND	4.2		µg/Kg	0.83	3/9/02
trans-1,2-Dichloroethene	ND	4.2		µg/Kg	0.83	3/9/02
Trichloroethene	ND	4.2		µg/Kg	0.83	3/9/02
Trichlorofluoromethane	ND	4.2		µg/Kg	0.83	3/9/02
Vinyl chloride	ND	4.2		µg/Kg	0.83	3/9/02
VOLATILE ORGANIC COMPOUNDS BY GC/MS			**EPA 8260B**			
RunID: **MS1_020309A** BatchID: **P02VOCS042**				PrepDate: **3/9/02**		Analyst: JPC
1,2-Dibromoethane	ND	4.2		µg/Kg	0.83	3/9/02
1,2-Dichloroethane	ND	4.2		µg/Kg	0.83	3/9/02
Di-isopropyl ether	ND	4.2		µg/Kg	0.83	3/9/02
Ethyl Tert-butyl ether	ND	4.2		µg/Kg	0.83	3/9/02
Tert-amyl methyl ether	ND	4.2		µg/Kg	0.83	3/9/02
Tert-Butanol	ND	83		µg/Kg	0.83	3/9/02

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: RA

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Print Date: *3/12/02*

CLIENT: Ninyo & Moore
Client Sample ID: NM1B-20
Lab Order: 055717
Project: Walker/USTS, 203571003
Collection Date: 3/6/02 3:50:00 PM
Lab ID: 055717-045B
Matrix: Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				**EPA 8260B**		
RunID: **MS1_020309A** BatchID: **P02VOCS042**				PrepDate: **3/9/02**		Analyst: **JPC**
1,1,1,2-Tetrachloroethane	ND	5.0		µg/Kg	1.0	3/9/02
1,1,1-Trichloroethane	ND	5.0		µg/Kg	1.0	3/9/02
1,1,2,2-Tetrachloroethane	ND	5.0		µg/Kg	1.0	3/9/02
1,1,2-Trichloroethane	ND	5.0		µg/Kg	1.0	3/9/02
1,1-Dichloroethane	ND	5.0		µg/Kg	1.0	3/9/02
1,1-Dichloroethene	ND	5.0		µg/Kg	1.0	3/9/02
1,1-Dichloropropene	ND	5.0		µg/Kg	1.0	3/9/02
1,2,3-Trichlorobenzene	ND	5.0		µg/Kg	1.0	3/9/02
1,2,3-Trichloropropane	ND	5.0		µg/Kg	1.0	3/9/02
1,2,4-Trichlorobenzene	ND	5.0		µg/Kg	1.0	3/9/02
1,2,4-Trimethylbenzene	ND	5.0		µg/Kg	1.0	3/9/02
1,2-Dibromo-3-chloropropane	ND	10		µg/Kg	1.0	3/9/02
1,2-Dibromoethane	ND	5.0		µg/Kg	1.0	3/9/02
1,2-Dichlorobenzene	ND	5.0		µg/Kg	1.0	3/9/02
1,2-Dichloroethane	ND	5.0		µg/Kg	1.0	3/9/02
1,2-Dichloropropane	ND	5.0		µg/Kg	1.0	3/9/02
1,3,5-Trimethylbenzene	ND	5.0		µg/Kg	1.0	3/9/02
1,3-Dichlorobenzene	ND	5.0		µg/Kg	1.0	3/9/02
1,3-Dichloropropane	ND	5.0		µg/Kg	1.0	3/9/02
1,4-Dichlorobenzene	ND	5.0		µg/Kg	1.0	3/9/02
2,2-Dichloropropane	ND	5.0		µg/Kg	1.0	3/9/02
2-Chlorotoluene	ND	5.0		µg/Kg	1.0	3/9/02
4-Chlorotoluene	ND	5.0		µg/Kg	1.0	3/9/02
4-Isopropyltoluene	ND	5.0		µg/Kg	1.0	3/9/02
Benzene	ND	5.0		µg/Kg	1.0	3/9/02
Bromobenzene	ND	5.0		µg/Kg	1.0	3/9/02
Bromodichloromethane	ND	5.0		µg/Kg	1.0	3/9/02
Bromoform	ND	5.0		µg/Kg	1.0	3/9/02
Bromomethane	ND	5.0		µg/Kg	1.0	3/9/02
Carbon tetrachloride	ND	5.0		µg/Kg	1.0	3/9/02
Chlorobenzene	ND	5.0		µg/Kg	1.0	3/9/02
Chloroethane	ND	5.0		µg/Kg	1.0	3/9/02
Chloroform	ND	5.0		µg/Kg	1.0	3/9/02
Chloromethane	ND	5.0		µg/Kg	1.0	3/9/02
cis-1,2-Dichloroethene	ND	5.0		µg/Kg	1.0	3/9/02
Dibromochloromethane	ND	5.0		µg/Kg	1.0	3/9/02
Dibromomethane	ND	5.0		µg/Kg	1.0	3/9/02
Dichlorodifluoromethane	ND	5.0		µg/Kg	1.0	3/9/02

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: RA

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Print Date: *3/12/02*

CLIENT: Ninyo & Moore
Client Sample ID: NM1B-20
Lab Order: 055717
Project: Walker/USTS, 203571003
Collection Date: 3/6/02 3:50:00 PM
Lab ID: 055717-045B
Matrix: Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS			**EPA 8260B**			
RunID: **MS1_020309A** BatchID: **P02VOCS042**				PrepDate: **3/9/02**		Analyst: **JPC**
Ethylbenzene	ND	5.0		µg/Kg	1.0	3/9/02
Hexachlorobutadiene	ND	5.0		µg/Kg	1.0	3/9/02
Isopropylbenzene	ND	5.0		µg/Kg	1.0	3/9/02
m,p-Xylene	ND	5.0		µg/Kg	1.0	3/9/02
Methylene chloride	ND	5.0		µg/Kg	1.0	3/9/02
MTBE	ND	5.0		µg/Kg	1.0	3/9/02
n-Butylbenzene	ND	5.0		µg/Kg	1.0	3/9/02
n-Propylbenzene	ND	5.0		µg/Kg	1.0	3/9/02
Naphthalene	ND	5.0		µg/Kg	1.0	3/9/02
o-Xylene	ND	5.0		µg/Kg	1.0	3/9/02
sec-Butylbenzene	ND	5.0		µg/Kg	1.0	3/9/02
Styrene	ND	5.0		µg/Kg	1.0	3/9/02
tert-Butylbenzene	ND	5.0		µg/Kg	1.0	3/9/02
Tetrachloroethene	ND	5.0		µg/Kg	1.0	3/9/02
Toluene	ND	5.0		µg/Kg	1.0	3/9/02
trans-1,2-Dichloroethene	ND	5.0		µg/Kg	1.0	3/9/02
Trichloroethene	ND	5.0		µg/Kg	1.0	3/9/02
Trichlorofluoromethane	ND	5.0		µg/Kg	1.0	3/9/02
Vinyl chloride	ND	5.0		µg/Kg	1.0	3/9/02
VOLATILE ORGANIC COMPOUNDS BY GC/MS			**EPA 8260B**			
RunID: **MS1_020309A** BatchID: **P02VOCS042**				PrepDate: **3/9/02**		Analyst: **JPC**
1,2-Dibromoethane	ND	5.0		µg/Kg	1.0	3/9/02
1,2-Dichloroethane	ND	5.0		µg/Kg	1.0	3/9/02
Di-isopropyl ether	ND	5.0		µg/Kg	1.0	3/9/02
Ethyl Tert-butyl ether	ND	5.0		µg/Kg	1.0	3/9/02
Tert-amyl methyl ether	ND	5.0		µg/Kg	1.0	3/9/02
Tert-Butanol	ND	100		µg/Kg	1.0	3/9/02

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: RA

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Print Date: *3/12/02*

CLIENT: Ninyo & Moore
Client Sample ID: NM2A-5
Lab Order: 055731
Project: Walker/USTS, 203571003
Collection Date: 3/7/02 8:34:00 AM
Lab ID: 055731-007B
Matrix: Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				**EPA 8260B**		
RunID: **MS1_020308A** BatchID: **P02VOCS041**				PrepDate: **3/8/02**		Analyst: JPC
1,2-Dibromoethane	ND	3.8		µg/Kg	0.76	3/8/02
1,2-Dichloroethane	ND	3.8		µg/Kg	0.76	3/8/02
Di-Isopropyl ether	ND	3.8		µg/Kg	0.76	3/8/02
Ethyl Tert-butyl ether	ND	3.8		µg/Kg	0.76	3/8/02
MTBE	ND	3.8		µg/Kg	0.76	3/8/02
Tert-amyl methyl ether	ND	3.8		µg/Kg	0.76	3/8/02
Tert-Butanol	ND	76		µg/Kg	0.76	3/8/02

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored, Highly Reactive

Initials: RA

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Print Date: *3/12/02*

CLIENT: Ninyo & Moore
Client Sample ID: NM2A-10
Lab Order: 055731
Project: Walker/USTS, 203571003
Collection Date: 3/7/02 8:37:00 AM
Lab ID: 055731-008B
Matrix: Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				**EPA 8260B**		
RunID: **MS1_020308A** BatchID: **P02VOCS041**				PrepDate: **3/8/02**		Analyst: **JPC**
1,2-Dibromoethane	ND	3.9		µg/Kg	0.77	3/8/02
1,2-Dichloroethane	ND	3.9		µg/Kg	0.77	3/8/02
Di-isopropyl ether	ND	3.9		µg/Kg	0.77	3/8/02
Ethyl Tert-butyl ether	ND	3.9		µg/Kg	0.77	3/8/02
MTBE	ND	3.9		µg/Kg	0.77	3/8/02
Tert-amyl methyl ether	ND	3.9		µg/Kg	0.77	3/8/02
Tert-Butanol	ND	77		µg/Kg	0.77	3/8/02

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored, Highly Reactive

Initials: RA

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Print Date: *3/12/02*

CLIENT: Ninyo & Moore **Client Sample ID:** NM2A-20
Lab Order: 055731
Project: Walker/USTS, 203571003 **Collection Date:** 3/7/02 8:50:00 AM
Lab ID: 055731-010B **Matrix:** Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				**EPA 8260B**		
RunID: **MS1_020308A** BatchID: **P02VOCS041**				PrepDate: **3/8/02**		Analyst: **JPC**
1,2-Dibromoethane	ND	4.2		µg/Kg	0.84	3/8/02
1,2-Dichloroethane	ND	4.2		µg/Kg	0.84	3/8/02
Di-isopropyl ether	ND	4.2		µg/Kg	0.84	3/8/02
Ethyl Tert-butyl ether	ND	4.2		µg/Kg	0.84	3/8/02
MTBE	ND	4.2		µg/Kg	0.84	3/8/02
Tert-amyl methyl ether	ND	4.2		µg/Kg	0.84	3/8/02
Tert-Butanol	ND	84		µg/Kg	0.84	3/8/02

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: RA

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Print Date: *3/12/02*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	NM2A-30
Lab Order:	055731		
Project:	Walker/USTS, 203571003	**Collection Date:**	3/7/02 9:05:00 AM
Lab ID:	055731-012B	**Matrix:**	Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				**EPA 8260B**		
RunID: **MS1_020308A** BatchID: **P02VOCS041**				PrepDate: **3/8/02**		Analyst: **JPC**
1,2-Dibromoethane	ND	4.9		µg/Kg	0.97	3/9/02
1,2-Dichloroethane	ND	4.9		µg/Kg	0.97	3/9/02
Di-isopropyl ether	ND	4.9		µg/Kg	0.97	3/9/02
Ethyl Tert-butyl ether	ND	4.9		µg/Kg	0.97	3/9/02
MTBE	ND	4.9		µg/Kg	0.97	3/9/02
Tert-amyl methyl ether	ND	4.9		µg/Kg	0.97	3/9/02
Tert-Butanol	ND	97		µg/Kg	0.97	3/9/02

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored, Highly Reactive

Initials: RA

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Print Date: *3/12/02*

CLIENT: Ninyo & Moore **Client Sample ID:** NM2A-40
Lab Order: 055731
Project: Walker/USTS, 203571003 **Collection Date:** 3/7/02 9:40:00 AM
Lab ID: 055731-014B **Matrix:** Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				**EPA 8260B**		
RunID: **MS1_020308A** BatchID: **P02VOCS041**				PrepDate: **3/8/02**		Analyst: **JPC**
1,2-Dibromoethane	ND	4.8		µg/Kg	0.96	3/9/02
1,2-Dichloroethane	ND	4.8		µg/Kg	0.96	3/9/02
Di-isopropyl ether	ND	4.8		µg/Kg	0.96	3/9/02
Ethyl Tert-butyl ether	ND	4.8		µg/Kg	0.96	3/9/02
MTBE	ND	4.8		µg/Kg	0.96	3/9/02
Tert-amyl methyl ether	ND	4.8		µg/Kg	0.96	3/9/02
Tert-Butanol	ND	96		µg/Kg	0.96	3/9/02

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: RA

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Print Date: *3/12/02*

CLIENT: Ninyo & Moore
Client Sample ID: NM2B-5
Lab Order: 055731
Project: Walker/USTS, 203571003
Collection Date: 3/7/02 9:55:00 AM
Lab ID: 055731-015B
Matrix: Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				**EPA 8260B**		
RunID: **MS1_020308A** BatchID: **P02VOCS041**				PrepDate: **3/8/02**		Analyst: **JPC**
1,2-Dibromoethane	ND	3.9		µg/Kg	0.78	3/9/02
1,2-Dichloroethane	ND	3.9		µg/Kg	0.78	3/9/02
Di-isopropyl ether	ND	3.9		µg/Kg	0.78	3/9/02
Ethyl Tert-butyl ether	ND	3.9		µg/Kg	0.78	3/9/02
MTBE	ND	3.9		µg/Kg	0.78	3/9/02
Tert-amyl methyl ether	ND	3.9		µg/Kg	0.78	3/9/02
Tert-Butanol	ND	78		µg/Kg	0.78	3/9/02

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: RA

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Print Date: *3/12/02*

CLIENT: Ninyo & Moore
Client Sample ID: NM2B-10
Lab Order: 055731
Project: Walker/USTS, 203571003
Collection Date: 3/7/02 10:00:00 AM
Lab ID: 055731-016B
Matrix: Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				**EPA 8260B**		
RunID: **MS1_020308A** BatchID: **P02VOCS041**				PrepDate: **3/8/02**		Analyst: **JPC**
1,2-Dibromoethane	ND	4.0		µg/Kg	0.80	3/9/02
1,2-Dichloroethane	ND	4.0		µg/Kg	0.80	3/9/02
Di-isopropyl ether	ND	4.0		µg/Kg	0.80	3/9/02
Ethyl Tert-butyl ether	ND	4.0		µg/Kg	0.80	3/9/02
MTBE	ND	4.0		µg/Kg	0.80	3/9/02
Tert-amyl methyl ether	ND	4.0		µg/Kg	0.80	3/9/02
Tert-Butanol	ND	80		µg/Kg	0.80	3/9/02

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored, Highly Reactive

Initials: RA

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Print Date: *3/12/02*

CLIENT: Ninyo & Moore
Client Sample ID: NM2B-20
Lab Order: 055731
Project: Walker/USTS, 203571003
Collection Date: 3/7/02 10:10:00 AM
Lab ID: 055731-018B
Matrix: Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS			**EPA 8260B**			
RunID: **MS1_020309A** BatchID: **P02VOCS042**				PrepDate: **3/9/02**		Analyst: **JPC**
1,2-Dibromoethane	ND	4.9		µg/Kg	0.99	3/9/02
1,2-Dichloroethane	ND	4.9		µg/Kg	0.99	3/9/02
Di-isopropyl ether	ND	4.9		µg/Kg	0.99	3/9/02
Ethyl Tert-butyl ether	ND	4.9		µg/Kg	0.99	3/9/02
MTBE	ND	4.9		µg/Kg	0.99	3/9/02
Tert-amyl methyl ether	ND	4.9		µg/Kg	0.99	3/9/02
Tert-Butanol	ND	99		µg/Kg	0.99	3/9/02

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: RA

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Print Date: *3/12/02*

CLIENT: Ninyo & Moore
Client Sample ID: NM3A-5
Lab Order: 055731
Project: Walker/USTS, 203571003
Collection Date: 3/7/02 7:32:00 AM
Lab ID: 055731-001B
Matrix: Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				**EPA 8260B**		
RunID: **MS1_020308A** BatchID: **P02VOCS041**				PrepDate: **3/8/02**		Analyst: JPC
1,2-Dibromoethane	ND	3.9		µg/Kg	0.77	3/8/02
1,2-Dichloroethane	ND	3.9		µg/Kg	0.77	3/8/02
Di-isopropyl ether	ND	3.9		µg/Kg	0.77	3/8/02
Ethyl Tert-butyl ether	ND	3.9		µg/Kg	0.77	3/8/02
MTBE	ND	3.9		µg/Kg	0.77	3/8/02
Tert-amyl methyl ether	ND	3.9		µg/Kg	0.77	3/8/02
Tert-Butanol	ND	77		µg/Kg	0.77	3/8/02

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: RA

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Print Date: *3/12/02*

CLIENT: Ninyo & Moore
Client Sample ID: NM3A-10
Lab Order: 055731
Project: Walker/USTS, 203571003
Collection Date: 3/7/02 7:37:00 AM
Lab ID: 055731-002B
Matrix: Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				**EPA 8260B**		
RunID: **MS1_020308A** BatchID: **P02VOCS041**				PrepDate: **3/8/02**		Analyst: **JPC**
1,2-Dibromoethane	ND	4.1		µg/Kg	0.83	3/8/02
1,2-Dichloroethane	ND	4.1		µg/Kg	0.83	3/8/02
Di-isopropyl ether	ND	4.1		µg/Kg	0.83	3/8/02
Ethyl Tert-butyl ether	ND	4.1		µg/Kg	0.83	3/8/02
MTBE	ND	4.1		µg/Kg	0.83	3/8/02
Tert-amyl methyl ether	ND	4.1		µg/Kg	0.83	3/8/02
Tert-Butanol	ND	83		µg/Kg	0.83	3/8/02

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: RA

Advanced Technology Laboratories 3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Print Date: *3/12/02*

CLIENT: Ninyo & Moore
Client Sample ID: NM3A-20
Lab Order: 055731
Project: Walker/USTS, 203571003
Collection Date: 3/7/02 7:50:00 AM
Lab ID: 055731-004B
Matrix: Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				**EPA 8260B**		
RunID: **MS1_020308A** BatchID: **P02VOCS041**				PrepDate: **3/8/02**		Analyst: JPC
1,2-Dibromoethane	ND	5.2		µg/Kg	1.0	3/8/02
1,2-Dichloroethane	ND	5.2		µg/Kg	1.0	3/8/02
Di-isopropyl ether	ND	5.2		µg/Kg	1.0	3/8/02
Ethyl Tert-butyl ether	ND	5.2		µg/Kg	1.0	3/8/02
MTBE	ND	5.2		µg/Kg	1.0	3/8/02
Tert-amyl methyl ether	ND	5.2		µg/Kg	1.0	3/8/02
Tert-Butanol	ND	100		µg/Kg	1.0	3/8/02

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: RA

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Print Date: *3/12/02*

CLIENT: Ninyo & Moore
Client Sample ID: NM3A-30
Lab Order: 055731
Project: Walker/USTS, 203571003
Collection Date: 3/7/02 8:30:00 AM
Lab ID: 055731-006B
Matrix: Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				**EPA 8260B**		
RunID: **MS1_020308A** BatchID: **P02VOCS041**				PrepDate: **3/8/02**		Analyst: **JPC**
1,2-Dibromoethane	ND	5.0		µg/Kg	1.0	3/8/02
1,2-Dichloroethane	ND	5.0		µg/Kg	1.0	3/8/02
Di-isopropyl ether	ND	5.0		µg/Kg	1.0	3/8/02
Ethyl Tert-butyl ether	ND	5.0		µg/Kg	1.0	3/8/02
MTBE	ND	5.0		µg/Kg	1.0	3/8/02
Tert-amyl methyl ether	ND	5.0		µg/Kg	1.0	3/8/02
Tert-Butanol	ND	100		µg/Kg	1.0	3/8/02

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: RA

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Print Date: *3/12/02*

CLIENT: Ninyo & Moore
Client Sample ID: NM3B-5
Lab Order: 055717
Project: Walker/USTS, 203571003
Collection Date: 3/6/02 4:07:00 PM
Lab ID: 055717-046B
Matrix: Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				**EPA 8260B**		
RunID: **MS1_020309A** BatchID: **P02VOCS042**				PrepDate: **3/9/02**		Analyst: **JPC**
1,2-Dibromoethane	ND	4.1		µg/Kg	0.81	3/9/02
1,2-Dichloroethane	ND	4.1		µg/Kg	0.81	3/9/02
Di-isopropyl ether	ND	4.1		µg/Kg	0.81	3/9/02
Ethyl Tert-butyl ether	ND	4.1		µg/Kg	0.81	3/9/02
MTBE	ND	4.1		µg/Kg	0.81	3/9/02
Tert-amyl methyl ether	ND	4.1		µg/Kg	0.81	3/9/02
Tert-Butanol	ND	81		µg/Kg	0.81	3/9/02

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: RA

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Print Date: *3/12/02*

CLIENT: Ninyo & Moore **Client Sample ID:** NM4A-5
Lab Order: 055717
Project: Walker/USTS, 203571003 **Collection Date:** 3/6/02 12:30:00 PM
Lab ID: 055717-001B **Matrix:** Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				**EPA 8260B**		
RunID: **MS3_020308B** BatchID: **R02VOCS053**				PrepDate: **3/8/02**		Analyst: **JPC**
1,2-Dibromoethane	ND	4.0		µg/Kg	0.80	3/8/02
1,2-Dichloroethane	ND	4.0		µg/Kg	0.80	3/8/02
Di-Isopropyl ether	ND	4.0		µg/Kg	0.80	3/8/02
Ethyl Tert-butyl ether	ND	4.0		µg/Kg	0.80	3/8/02
MTBE	ND	4.0		µg/Kg	0.80	3/8/02
Tert-amyl methyl ether	ND	4.0		µg/Kg	0.80	3/8/02
Tert-Butanol	ND	80		µg/Kg	0.80	3/8/02

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: RA

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Print Date: *3/12/02*

CLIENT: Ninyo & Moore
Client Sample ID: NM4A-10
Lab Order: 055717
Project: Walker/USTS, 203571003
Collection Date: 3/6/02 12:35:00 PM
Lab ID: 055717-002B
Matrix: Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				**EPA 8260B**		
RunID: **MS3_020308B** BatchID: **R02VOCS053**				PrepDate: **3/8/02**		Analyst: **JPC**
1,2-Dibromoethane	ND	3.8		µg/Kg	0.75	3/8/02
1,2-Dichloroethane	ND	3.8		µg/Kg	0.75	3/8/02
Di-isopropyl ether	ND	3.8		µg/Kg	0.75	3/8/02
Ethyl Tert-butyl ether	ND	3.8		µg/Kg	0.75	3/8/02
MTBE	ND	3.8		µg/Kg	0.75	3/8/02
Tert-amyl methyl ether	ND	3.8		µg/Kg	0.75	3/8/02
Tert-Butanol	ND	75		µg/Kg	0.75	3/8/02

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: RA

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Print Date: *3/12/02*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	NM4A-10
Lab Order:	055731		
Project:	Walker/USTS, 203571003	**Collection Date:**	3/7/02 11:05:00 AM
Lab ID:	055731-020A	**Matrix:**	Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
GASOLINE RANGE ORGANICS BY GC/FID				**EPA 8015B(M)**		
RunID: GC1_020311A BatchID: D028G20S062				PrepDate:		Analyst: RK
GRO	ND	1.0		mg/Kg	1.0	3/11/02

Qualifiers:

- ND - Not Detected at the Reporting Limit
- J - Analyte detected below quantitation limits
- B - Analyte detected in the associated Method Blank
- DO - Surrogate Diluted Out
- S - Spike/Surrogate outside of limits due to matrix interference.
- H - Samples exceeding analytical holding time
- E - Value above quantitation range
- M - Not Monitored, Highly Reactive

Initials: RA

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Print Date: *3/12/02*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	NM4A-20
Lab Order:	055717		
Project:	Walker/USTS, 203571003	**Collection Date:**	3/6/02 12:44:00 PM
Lab ID:	055717-004B	**Matrix:**	Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				**EPA 8260B**		
RunID: **MS3_020308B** BatchID: **R02VOCS053**				PrepDate: **3/8/02**		Analyst: **JPC**
1,2-Dibromoethane	ND	4.6		µg/Kg	0.93	3/8/02
1,2-Dichloroethane	ND	4.6		µg/Kg	0.93	3/8/02
Di-isopropyl ether	ND	4.6		µg/Kg	0.93	3/8/02
Ethyl Tert-butyl ether	ND	4.6		µg/Kg	0.93	3/8/02
MTBE	ND	4.6		µg/Kg	0.93	3/8/02
Tert-amyl methyl ether	ND	4.6		µg/Kg	0.93	3/8/02
Tert-Butanol	ND	93		µg/Kg	0.93	3/8/02

Qualifiers:
- ND - Not Detected at the Reporting Limit
- J - Analyte detected below quantitation limits
- B - Analyte detected in the associated Method Blank
- DO - Surrogate Diluted Out
- S - Spike/Surrogate outside of limits due to matrix interference.
- H - Samples exceeding analytical holding time
- E - Value above quantitation range
- M - Not Monitored. Highly Reactive

Initials: RA

Advanced Technology Laboratories 3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Print Date: *3/12/02*

CLIENT: Ninyo & Moore **Client Sample ID:** NM4A-30
Lab Order: 055717
Project: Walker/USTS, 203571003 **Collection Date:** 3/6/02 1:05:00 PM
Lab ID: 055717-006B **Matrix:** Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				**EPA 8260B**		
RunID: **MS3_020308B** BatchID: **R02VOCS053**				PrepDate: **3/8/02**		Analyst: **JPC**
1,2-Dibromoethane	ND	4.9		µg/Kg	0.97	3/8/02
1,2-Dichloroethane	ND	4.9		µg/Kg	0.97	3/8/02
Di-isopropyl ether	ND	4.9		µg/Kg	0.97	3/8/02
Ethyl Tert-butyl ether	ND	4.9		µg/Kg	0.97	3/8/02
MTBE	ND	4.9		µg/Kg	0.97	3/8/02
Tert-amyl methyl ether	ND	4.9		µg/Kg	0.97	3/8/02
Tert-Butanol	ND	97		µg/Kg	0.97	3/8/02

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: RA

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Print Date: *3/12/02*

CLIENT: Ninyo & Moore
Client Sample ID: NM4A-35
Lab Order: 055717
Project: Walker/USTS, 203571003
Collection Date: 3/6/02 2:00:00 PM
Lab ID: 055717-007B
Matrix: Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				**EPA 8260B**		
RunID: **MS3_020308B** BatchID: **R02VOCS053**				PrepDate: **3/8/02**		Analyst: JPC
1,2-Dibromoethane	ND	4.9		µg/Kg	0.98	3/8/02
1,2-Dichloroethane	ND	4.9		µg/Kg	0.98	3/8/02
Di-isopropyl ether	ND	4.9		µg/Kg	0.98	3/8/02
Ethyl Tert-butyl ether	ND	4.9		µg/Kg	0.98	3/8/02
MTBE	ND	4.9		µg/Kg	0.98	3/8/02
Tert-amyl methyl ether	ND	4.9		µg/Kg	0.98	3/8/02
Tert-Butanol	ND	98		µg/Kg	0.98	3/8/02

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: RA

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Print Date: *3/12/02*

CLIENT: Ninyo & Moore
Client Sample ID: NM4B-5
Lab Order: 055717
Project: Walker/USTS, 203571003
Collection Date: 3/6/02 2:12:00 PM
Lab ID: 055717-008B
Matrix: Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				**EPA 8260B**		
RunID: **MS3_020308B** BatchID: **R02VOCS053**				PrepDate: **3/8/02**		Analyst: JPC
1,2-Dibromoethane	ND	4.3		µg/Kg	0.87	3/8/02
1,2-Dichloroethane	ND	4.3		µg/Kg	0.87	3/8/02
Di-isopropyl ether	ND	4.3		µg/Kg	0.87	3/8/02
Ethyl Tert-butyl ether	ND	4.3		µg/Kg	0.87	3/8/02
MTBE	ND	4.3		µg/Kg	0.87	3/8/02
Tert-amyl methyl ether	ND	4.3		µg/Kg	0.87	3/8/02
Tert-Butanol	ND	87		µg/Kg	0.87	3/8/02

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: RA

Advanced Technology Laboratories 3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Print Date: *3/12/02*

CLIENT: Ninyo & Moore **Client Sample ID:** NM4B-10
Lab Order: 055717
Project: Walker/USTS, 203571003 **Collection Date:** 3/6/02 2:17:00 PM
Lab ID: 055717-009B **Matrix:** Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				**EPA 8260B**		
RunID: **MS3_020308B** BatchID: **R02VOCS053**				PrepDate: **3/8/02**		Analyst: JPC
1,2-Dibromoethane	ND	3.9		µg/Kg	0.79	3/8/02
1,2-Dichloroethane	ND	3.9		µg/Kg	0.79	3/8/02
Di-isopropyl ether	ND	3.9		µg/Kg	0.79	3/8/02
Ethyl Tert-butyl ether	ND	3.9		µg/Kg	0.79	3/8/02
MTBE	ND	3.9		µg/Kg	0.79	3/8/02
Tert-amyl methyl ether	ND	3.9		µg/Kg	0.79	3/8/02
Tert-Butanol	ND	79		µg/Kg	0.79	3/8/02

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored, Highly Reactive

Initials: RA

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Print Date: *3/12/02*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	NM4B-15
Lab Order:	055731		
Project:	Walker/USTS, 203571003	**Collection Date:**	3/7/02 11:15:00 AM
Lab ID:	055731-021A	**Matrix:**	Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
GASOLINE RANGE ORGANICS BY GC/FID				**EPA 8015B(M)**		
RunID: **GC1_020311A**	BatchID: **D028G20S062**			PrepDate:		Analyst: **RK**
GRO	ND	1.0		mg/Kg	1.0	3/11/02

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike/Surrogate outside of limits due to matrix interference.
	J - Analyte detected below quantitation limits	H - Samples exceeding analytical holding time
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	DO - Surrogate Diluted Out	M - Not Monitored. Highly Reactive

Initials: RA

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Print Date: *3/12/02*

CLIENT: Ninyo & Moore **Client Sample ID:** NM4B-20
Lab Order: 055717
Project: Walker/USTS, 203571003 **Collection Date:** 3/6/02 2:30:00 PM
Lab ID: 055717-011B **Matrix:** Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				**EPA 8260B**		
RunID: **MS3_020308B** BatchID: **R02VOCS053**				PrepDate: **3/8/02**		Analyst: **JPC**
1,2-Dibromoethane	ND	4.9		µg/Kg	0.97	3/9/02
1,2-Dichloroethane	ND	4.9		µg/Kg	0.97	3/9/02
Di-isopropyl ether	ND	4.9		µg/Kg	0.97	3/9/02
Ethyl Tert-butyl ether	ND	4.9		µg/Kg	0.97	3/9/02
MTBE	ND	4.9		µg/Kg	0.97	3/9/02
Tert-amyl methyl ether	ND	4.9		µg/Kg	0.97	3/9/02
Tert-Butanol	ND	97		µg/Kg	0.97	3/9/02

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: RA

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Print Date: *3/12/02*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	NM5A-5
Lab Order:	055717		
Project:	Walker/USTS, 203571003	**Collection Date:**	3/6/02 9:55:00 AM
Lab ID:	055717-024A	**Matrix:**	Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
HYDROCARBON CHAIN IDENTIFICATION				**EPA 8015B**		
RunID: **GC7_020307A** BatchID: **7803**				PrepDate: **3/7/02**		Analyst: IG
T/R Hydrocarbons: C10-C12	ND	10		mg/Kg	1.0	3/7/02
T/R Hydrocarbons: C13-C15	ND	10		mg/Kg	1.0	3/7/02
T/R Hydrocarbons: C16-C22	ND	10		mg/Kg	1.0	3/7/02
T/R Hydrocarbons: C23-C32	ND	10		mg/Kg	1.0	3/7/02
T/R Hydrocarbons: >C32	ND	10		mg/Kg	1.0	3/7/02

Qualifiers:

- ND - Not Detected at the Reporting Limit
- J - Analyte detected below quantitation limits
- B - Analyte detected in the associated Method Blank
- DO - Surrogate Diluted Out
- S - Spike/Surrogate outside of limits due to matrix interference.
- H - Samples exceeding analytical holding time
- E - Value above quantitation range
- M - Not Monitored. Highly Reactive

Initials: RA

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Print Date: *3/12/02*

CLIENT: Ninyo & Moore
Client Sample ID: NM5A-5
Lab Order: 055717
Project: Walker/USTS, 203571003
Collection Date: 3/6/02 9:55:00 AM
Lab ID: 055717-024B
Matrix: Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS			**EPA 8260B**			
RunID: **MS3_020309A** BatchID: **R02VOCS054**				PrepDate: **3/6/02**		Analyst: JPC
1,1,1,2-Tetrachloroethane	ND	3.7		µg/Kg	0.75	3/9/02
1,1,1-Trichloroethane	ND	3.7		µg/Kg	0.75	3/9/02
1,1,2,2-Tetrachloroethane	ND	3.7		µg/Kg	0.75	3/9/02
1,1,2-Trichloroethane	ND	3.7		µg/Kg	0.75	3/9/02
1,1-Dichloroethane	ND	3.7		µg/Kg	0.75	3/9/02
1,1-Dichloroethene	ND	3.7		µg/Kg	0.75	3/9/02
1,1-Dichloropropene	ND	3.7		µg/Kg	0.75	3/9/02
1,2,3-Trichlorobenzene	ND	3.7		µg/Kg	0.75	3/9/02
1,2,3-Trichloropropane	ND	3.7		µg/Kg	0.75	3/9/02
1,2,4-Trichlorobenzene	ND	3.7		µg/Kg	0.75	3/9/02
1,2,4-Trimethylbenzene	ND	3.7		µg/Kg	0.75	3/9/02
1,2-Dibromo-3-chloropropane	ND	7.5		µg/Kg	0.75	3/9/02
1,2-Dibromoethane	ND	3.7		µg/Kg	0.75	3/9/02
1,2-Dichlorobenzene	ND	3.7		µg/Kg	0.75	3/9/02
1,2-Dichloroethane	ND	3.7		µg/Kg	0.75	3/9/02
1,2-Dichloropropane	ND	3.7		µg/Kg	0.75	3/9/02
1,3,5-Trimethylbenzene	ND	3.7		µg/Kg	0.75	3/9/02
1,3-Dichlorobenzene	ND	3.7		µg/Kg	0.75	3/9/02
1,3-Dichloropropane	ND	3.7		µg/Kg	0.75	3/9/02
1,4-Dichlorobenzene	ND	3.7		µg/Kg	0.75	3/9/02
2,2-Dichloropropane	ND	3.7		µg/Kg	0.75	3/9/02
2-Chlorotoluene	ND	3.7		µg/Kg	0.75	3/9/02
4-Chlorotoluene	ND	3.7		µg/Kg	0.75	3/9/02
4-Isopropyltoluene	ND	3.7		µg/Kg	0.75	3/9/02
Benzene	ND	3.7		µg/Kg	0.75	3/9/02
Bromobenzene	ND	3.7		µg/Kg	0.75	3/9/02
Bromodichloromethane	ND	3.7		µg/Kg	0.75	3/9/02
Bromoform	ND	3.7		µg/Kg	0.75	3/9/02
Bromomethane	ND	3.7		µg/Kg	0.75	3/9/02
Carbon tetrachloride	ND	3.7		µg/Kg	0.75	3/9/02
Chlorobenzene	ND	3.7		µg/Kg	0.75	3/9/02
Chloroethane	ND	3.7		µg/Kg	0.75	3/9/02
Chloroform	ND	3.7		µg/Kg	0.75	3/9/02
Chloromethane	ND	3.7		µg/Kg	0.75	3/9/02
cis-1,2-Dichloroethene	ND	3.7		µg/Kg	0.75	3/9/02
Dibromochloromethane	ND	3.7		µg/Kg	0.75	3/9/02
Dibromomethane	ND	3.7		µg/Kg	0.75	3/9/02
Dichlorodifluoromethane	ND	3.7		µg/Kg	0.75	3/9/02

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: RA

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Print Date: *3/12/02*

CLIENT: Ninyo & Moore
Client Sample ID: NM5A-5
Lab Order: 055717
Project: Walker/USTS, 203571003
Collection Date: 3/6/02 9:55:00 AM
Lab ID: 055717-024B
Matrix: Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				**EPA 8260B**		
RunID: **MS3_020309A** BatchID: **R02VOCS054**				PrepDate: **3/6/02**		Analyst: JPC
Ethylbenzene	ND	3.7		µg/Kg	0.75	3/9/02
Hexachlorobutadiene	ND	3.7		µg/Kg	0.75	3/9/02
Isopropylbenzene	ND	3.7		µg/Kg	0.75	3/9/02
m,p-Xylene	ND	3.7		µg/Kg	0.75	3/9/02
Methylene chloride	ND	3.7		µg/Kg	0.75	3/9/02
MTBE	ND	3.7		µg/Kg	0.75	3/9/02
n-Butylbenzene	ND	3.7		µg/Kg	0.75	3/9/02
n-Propylbenzene	ND	3.7		µg/Kg	0.75	3/9/02
Naphthalene	ND	3.7		µg/Kg	0.75	3/9/02
o-Xylene	ND	3.7		µg/Kg	0.75	3/9/02
sec-Butylbenzene	ND	3.7		µg/Kg	0.75	3/9/02
Styrene	ND	3.7		µg/Kg	0.75	3/9/02
tert-Butylbenzene	ND	3.7		µg/Kg	0.75	3/9/02
Tetrachloroethene	ND	3.7		µg/Kg	0.75	3/9/02
Toluene	ND	3.7		µg/Kg	0.75	3/9/02
trans-1,2-Dichloroethene	ND	3.7		µg/Kg	0.75	3/9/02
Trichloroethene	ND	3.7		µg/Kg	0.75	3/9/02
Trichlorofluoromethane	ND	3.7		µg/Kg	0.75	3/9/02
Vinyl chloride	ND	3.7		µg/Kg	0.75	3/9/02
VOLATILE ORGANIC COMPOUNDS BY GC/MS				**EPA 8260B**		
RunID: **MS3_020309A** BatchID: **R02VOCS054**				PrepDate: **3/6/02**		Analyst: JPC
1,2-Dibromoethane	ND	3.7		µg/Kg	0.75	3/9/02
1,2-Dichloroethane	ND	3.7		µg/Kg	0.75	3/9/02
Di-isopropyl ether	ND	3.7		µg/Kg	0.75	3/9/02
Ethyl Tert-butyl ether	ND	3.7		µg/Kg	0.75	3/9/02
Tert-amyl methyl ether	ND	3.7		µg/Kg	0.75	3/9/02
Tert-Butanol	ND	75		µg/Kg	0.75	3/9/02

Qualifiers:
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B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored, Highly Reactive

Initials: RA

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Print Date: *3/12/02*

CLIENT: Ninyo & Moore
Client Sample ID: NM5A-10
Lab Order: 055717
Project: Walker/USTS, 203571003
Collection Date: 3/6/02 10:00:00 AM
Lab ID: 055717-025A
Matrix: Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS				**EPA 6010B**		
RunID: **ICP2_020312A** BatchID: **7839**				PrepDate: **3/11/02**		Analyst: **RQ**
Antimony	0.50	0.25		mg/Kg	1.0	3/12/02
Arsenic	10	0.25		mg/Kg	1.0	3/12/02
Barium	96	0.15		mg/Kg	1.0	3/12/02
Beryllium	ND	0.15		mg/Kg	1.0	3/12/02
Cadmium	ND	0.15		mg/Kg	1.0	3/12/02
Chromium	18	0.15		mg/Kg	1.0	3/12/02
Cobalt	10	0.15		mg/Kg	1.0	3/12/02
Copper	25	0.15		mg/Kg	1.0	3/12/02
Lead	4.0	0.25		mg/Kg	1.0	3/12/02
Molybdenum	0.50	0.25		mg/Kg	1.0	3/12/02
Nickel	16	0.15		mg/Kg	1.0	3/12/02
Selenium	ND	0.25		mg/Kg	1.0	3/12/02
Silver	ND	0.15		mg/Kg	1.0	3/12/02
Thallium	0.50	0.25		mg/Kg	1.0	3/12/02
Vanadium	35	0.15		mg/Kg	1.0	3/12/02
Zinc	46	0.50		mg/Kg	1.0	3/12/02
MERCURY BY COLD VAPOR TECHNIQUE				**EPA 7471A**		
RunID: **AA1_020308B** BatchID: **7812**				PrepDate: **3/8/02**		Analyst: **NS**
Mercury	ND	0.10		mg/Kg	1.0	3/8/02
HYDROCARBON CHAIN IDENTIFICATION				**EPA 8015B**		
RunID: **GC7_020307A** BatchID: **7803**				PrepDate: **3/7/02**		Analyst: **IG**
T/R Hydrocarbons: C10-C12	ND	10		mg/Kg	1.0	3/7/02
T/R Hydrocarbons: C13-C15	ND	10		mg/Kg	1.0	3/7/02
T/R Hydrocarbons: C16-C22	ND	10		mg/Kg	1.0	3/7/02
T/R Hydrocarbons: C23-C32	ND	10		mg/Kg	1.0	3/7/02
T/R Hydrocarbons: >C32	ND	10		mg/Kg	1.0	3/7/02

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: RA

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Print Date: *3/12/02*

CLIENT: Ninyo & Moore
Client Sample ID: NM5A-10
Lab Order: 055717
Project: Walker/USTS, 203571003
Collection Date: 3/6/02 10:00:00 AM
Lab ID: 055717-025B
Matrix: Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				**EPA 8260B**		
RunID: **MS3_020309A** BatchID: **R02VOCS054**				PrepDate: **3/6/02**		Analyst: **JPC**
1,1,1,2-Tetrachloroethane	ND	4.4		µg/Kg	0.88	3/9/02
1,1,1-Trichloroethane	ND	4.4		µg/Kg	0.88	3/9/02
1,1,2,2-Tetrachloroethane	ND	4.4		µg/Kg	0.88	3/9/02
1,1,2-Trichloroethane	ND	4.4		µg/Kg	0.88	3/9/02
1,1-Dichloroethane	ND	4.4		µg/Kg	0.88	3/9/02
1,1-Dichloroethene	ND	4.4		µg/Kg	0.88	3/9/02
1,1-Dichloropropene	ND	4.4		µg/Kg	0.88	3/9/02
1,2,3-Trichlorobenzene	ND	4.4		µg/Kg	0.88	3/9/02
1,2,3-Trichloropropane	ND	4.4		µg/Kg	0.88	3/9/02
1,2,4-Trichlorobenzene	ND	4.4		µg/Kg	0.88	3/9/02
1,2,4-Trimethylbenzene	ND	4.4		µg/Kg	0.88	3/9/02
1,2-Dibromo-3-chloropropane	ND	8.8		µg/Kg	0.88	3/9/02
1,2-Dibromoethane	ND	4.4		µg/Kg	0.88	3/9/02
1,2-Dichlorobenzene	ND	4.4		µg/Kg	0.88	3/9/02
1,2-Dichloroethane	ND	4.4		µg/Kg	0.88	3/9/02
1,2-Dichloropropane	ND	4.4		µg/Kg	0.88	3/9/02
1,3,5-Trimethylbenzene	ND	4.4		µg/Kg	0.88	3/9/02
1,3-Dichlorobenzene	ND	4.4		µg/Kg	0.88	3/9/02
1,3-Dichloropropane	ND	4.4		µg/Kg	0.88	3/9/02
1,4-Dichlorobenzene	ND	4.4		µg/Kg	0.88	3/9/02
2,2-Dichloropropane	ND	4.4		µg/Kg	0.88	3/9/02
2-Chlorotoluene	ND	4.4		µg/Kg	0.88	3/9/02
4-Chlorotoluene	ND	4.4		µg/Kg	0.88	3/9/02
4-Isopropyltoluene	ND	4.4		µg/Kg	0.88	3/9/02
Benzene	6.3	4.4		µg/Kg	0.88	3/9/02
Bromobenzene	ND	4.4		µg/Kg	0.88	3/9/02
Bromodichloromethane	ND	4.4		µg/Kg	0.88	3/9/02
Bromoform	ND	4.4		µg/Kg	0.88	3/9/02
Bromomethane	ND	4.4		µg/Kg	0.88	3/9/02
Carbon tetrachloride	ND	4.4		µg/Kg	0.88	3/9/02
Chlorobenzene	ND	4.4		µg/Kg	0.88	3/9/02
Chloroethane	ND	4.4		µg/Kg	0.88	3/9/02
Chloroform	ND	4.4		µg/Kg	0.88	3/9/02
Chloromethane	ND	4.4		µg/Kg	0.88	3/9/02
cis-1,2-Dichloroethene	ND	4.4		µg/Kg	0.88	3/9/02
Dibromochloromethane	ND	4.4		µg/Kg	0.88	3/9/02
Dibromomethane	ND	4.4		µg/Kg	0.88	3/9/02
Dichlorodifluoromethane	ND	4.4		µg/Kg	0.88	3/9/02

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: RA

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Print Date: *3/12/02*

CLIENT: Ninyo & Moore
Client Sample ID: NM5A-10
Lab Order: 055717
Project: Walker/USTS, 203571003
Collection Date: 3/6/02 10:00:00 AM
Lab ID: 055717-025B
Matrix: Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				**EPA 8260B**		
RunID: **MS3_020309A** BatchID: **R02VOCS054**				PrepDate: **3/6/02**		Analyst: JPC
Ethylbenzene	ND	4.4		µg/Kg	0.88	3/9/02
Hexachlorobutadiene	ND	4.4		µg/Kg	0.88	3/9/02
Isopropylbenzene	ND	4.4		µg/Kg	0.88	3/9/02
m,p-Xylene	ND	4.4		µg/Kg	0.88	3/9/02
Methylene chloride	ND	4.4		µg/Kg	0.88	3/9/02
MTBE	ND	4.4		µg/Kg	0.88	3/9/02
n-Butylbenzene	ND	4.4		µg/Kg	0.88	3/9/02
n-Propylbenzene	ND	4.4		µg/Kg	0.88	3/9/02
Naphthalene	ND	4.4		µg/Kg	0.88	3/9/02
o-Xylene	ND	4.4		µg/Kg	0.88	3/9/02
sec-Butylbenzene	ND	4.4		µg/Kg	0.88	3/9/02
Styrene	ND	4.4		µg/Kg	0.88	3/9/02
tert-Butylbenzene	ND	4.4		µg/Kg	0.88	3/9/02
Tetrachloroethene	ND	4.4		µg/Kg	0.88	3/9/02
Toluene	ND	4.4		µg/Kg	0.88	3/9/02
trans-1,2-Dichloroethene	ND	4.4		µg/Kg	0.88	3/9/02
Trichloroethene	ND	4.4		µg/Kg	0.88	3/9/02
Trichlorofluoromethane	ND	4.4		µg/Kg	0.88	3/9/02
Vinyl chloride	ND	4.4		µg/Kg	0.88	3/9/02
VOLATILE ORGANIC COMPOUNDS BY GC/MS				**EPA 8260B**		
RunID: **MS3_020309A** BatchID: **R02VOCS054**				PrepDate: **3/6/02**		Analyst: JPC
1,2-Dibromoethane	ND	4.4		µg/Kg	0.88	3/9/02
1,2-Dichloroethane	ND	4.4		µg/Kg	0.88	3/9/02
Di-isopropyl ether	ND	4.4		µg/Kg	0.88	3/9/02
Ethyl Tert-butyl ether	ND	4.4		µg/Kg	0.88	3/9/02
Tert-amyl methyl ether	ND	4.4		µg/Kg	0.88	3/9/02
Tert-Butanol	ND	88		µg/Kg	0.88	3/9/02

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: RA

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Print Date: *3/12/02*

CLIENT: Ninyo & Moore
Client Sample ID: NM5A-20
Lab Order: 055717
Project: Walker/USTS, 203571003
Collection Date: 3/6/02 10:10:00 AM
Lab ID: 055717-027A
Matrix: Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
HYDROCARBON CHAIN IDENTIFICATION				**EPA 8015B**		
RunID: **GC7_020307A** BatchID: **7803**				PrepDate: **3/7/02**		Analyst: IG
T/R Hydrocarbons: C10-C12	ND	10		mg/Kg	1.0	3/7/02
T/R Hydrocarbons: C13-C15	ND	10		mg/Kg	1.0	3/7/02
T/R Hydrocarbons: C16-C22	ND	10		mg/Kg	1.0	3/7/02
T/R Hydrocarbons: C23-C32	ND	10		mg/Kg	1.0	3/7/02
T/R Hydrocarbons: >C32	ND	10		mg/Kg	1.0	3/7/02

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: RA

Advanced Technology Laboratories 3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Print Date: *3/12/02*

CLIENT: Ninyo & Moore
Client Sample ID: NM5A-20
Lab Order: 055717
Project: Walker/USTS, 203571003
Collection Date: 3/6/02 10:10:00 AM
Lab ID: 055717-027B
Matrix: Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS			**EPA 8260B**			
RunID: **MS3_020309A** BatchID: **R02VOCS054**				PrepDate: **3/6/02**		Analyst: **JPC**
1,1,1,2-Tetrachloroethane	ND	4.7		µg/Kg	0.95	3/9/02
1,1,1-Trichloroethane	ND	4.7		µg/Kg	0.95	3/9/02
1,1,2,2-Tetrachloroethane	ND	4.7		µg/Kg	0.95	3/9/02
1,1,2-Trichloroethane	ND	4.7		µg/Kg	0.95	3/9/02
1,1-Dichloroethane	ND	4.7		µg/Kg	0.95	3/9/02
1,1-Dichloroethene	ND	4.7		µg/Kg	0.95	3/9/02
1,1-Dichloropropene	ND	4.7		µg/Kg	0.95	3/9/02
1,2,3-Trichlorobenzene	ND	4.7		µg/Kg	0.95	3/9/02
1,2,3-Trichloropropane	ND	4.7		µg/Kg	0.95	3/9/02
1,2,4-Trichlorobenzene	ND	4.7		µg/Kg	0.95	3/9/02
1,2,4-Trimethylbenzene	ND	4.7		µg/Kg	0.95	3/9/02
1,2-Dibromo-3-chloropropane	ND	9.5		µg/Kg	0.95	3/9/02
1,2-Dibromoethane	ND	4.7		µg/Kg	0.95	3/9/02
1,2-Dichlorobenzene	ND	4.7		µg/Kg	0.95	3/9/02
1,2-Dichloroethane	ND	4.7		µg/Kg	0.95	3/9/02
1,2-Dichloropropane	ND	4.7		µg/Kg	0.95	3/9/02
1,3,5-Trimethylbenzene	ND	4.7		µg/Kg	0.95	3/9/02
1,3-Dichlorobenzene	ND	4.7		µg/Kg	0.95	3/9/02
1,3-Dichloropropane	ND	4.7		µg/Kg	0.95	3/9/02
1,4-Dichlorobenzene	ND	4.7		µg/Kg	0.95	3/9/02
2,2-Dichloropropane	ND	4.7		µg/Kg	0.95	3/9/02
2-Chlorotoluene	ND	4.7		µg/Kg	0.95	3/9/02
4-Chlorotoluene	ND	4.7		µg/Kg	0.95	3/9/02
4-Isopropyltoluene	ND	4.7		µg/Kg	0.95	3/9/02
Benzene	ND	4.7		µg/Kg	0.95	3/9/02
Bromobenzene	ND	4.7		µg/Kg	0.95	3/9/02
Bromodichloromethane	ND	4.7		µg/Kg	0.95	3/9/02
Bromoform	ND	4.7		µg/Kg	0.95	3/9/02
Bromomethane	ND	4.7		µg/Kg	0.95	3/9/02
Carbon tetrachloride	ND	4.7		µg/Kg	0.95	3/9/02
Chlorobenzene	ND	4.7		µg/Kg	0.95	3/9/02
Chloroethane	ND	4.7		µg/Kg	0.95	3/9/02
Chloroform	ND	4.7		µg/Kg	0.95	3/9/02
Chloromethane	ND	4.7		µg/Kg	0.95	3/9/02
cis-1,2-Dichloroethene	ND	4.7		µg/Kg	0.95	3/9/02
Dibromochloromethane	ND	4.7		µg/Kg	0.95	3/9/02
Dibromomethane	ND	4.7		µg/Kg	0.95	3/9/02
Dichlorodifluoromethane	ND	4.7		µg/Kg	0.95	3/9/02

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: RA

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Print Date: *3/12/02*

CLIENT: Ninyo & Moore
Client Sample ID: NM5A-20
Lab Order: 055717
Project: Walker/USTS, 203571003
Collection Date: 3/6/02 10:10:00 AM
Lab ID: 055717-027B
Matrix: Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS			**EPA 8260B**			
RunID: **MS3_020309A** BatchID: **R02VOCS054**				PrepDate: **3/6/02**		Analyst: JPC
Ethylbenzene	ND	4.7		µg/Kg	0.95	3/9/02
Hexachlorobutadiene	ND	4.7		µg/Kg	0.95	3/9/02
Isopropylbenzene	ND	4.7		µg/Kg	0.95	3/9/02
m,p-Xylene	ND	4.7		µg/Kg	0.95	3/9/02
Methylene chloride	ND	4.7		µg/Kg	0.95	3/9/02
MTBE	ND	4.7		µg/Kg	0.95	3/9/02
n-Butylbenzene	ND	4.7		µg/Kg	0.95	3/9/02
n-Propylbenzene	ND	4.7		µg/Kg	0.95	3/9/02
Naphthalene	ND	4.7		µg/Kg	0.95	3/9/02
o-Xylene	ND	4.7		µg/Kg	0.95	3/9/02
sec-Butylbenzene	ND	4.7		µg/Kg	0.95	3/9/02
Styrene	ND	4.7		µg/Kg	0.95	3/9/02
tert-Butylbenzene	ND	4.7		µg/Kg	0.95	3/9/02
Tetrachloroethene	ND	4.7		µg/Kg	0.95	3/9/02
Toluene	ND	4.7		µg/Kg	0.95	3/9/02
trans-1,2-Dichloroethene	ND	4.7		µg/Kg	0.95	3/9/02
Trichloroethene	ND	4.7		µg/Kg	0.95	3/9/02
Trichlorofluoromethane	ND	4.7		µg/Kg	0.95	3/9/02
Vinyl chloride	ND	4.7		µg/Kg	0.95	3/9/02
VOLATILE ORGANIC COMPOUNDS BY GC/MS			**EPA 8260B**			
RunID: **MS3_020309A** BatchID: **R02VOCS054**				PrepDate: **3/6/02**		Analyst: JPC
1,2-Dibromoethane	ND	4.7		µg/Kg	0.95	3/9/02
1,2-Dichloroethane	ND	4.7		µg/Kg	0.95	3/9/02
Di-Isopropyl ether	ND	4.7		µg/Kg	0.95	3/9/02
Ethyl Tert-butyl ether	ND	4.7		µg/Kg	0.95	3/9/02
Tert-amyl methyl ether	ND	4.7		µg/Kg	0.95	3/9/02
Tert-Butanol	ND	95		µg/Kg	0.95	3/9/02

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: RA

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Print Date: *3/12/02*

CLIENT: Ninyo & Moore **Client Sample ID:** NM5A-30
Lab Order: 055717
Project: Walker/USTS, 203571003 **Collection Date:** 3/6/02 10:45:00 AM
Lab ID: 055717-029A **Matrix:** Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
HYDROCARBON CHAIN IDENTIFICATION			**EPA 8015B**			
RunID: **GC7_020307A** BatchID: **7803**				PrepDate: **3/7/02**		Analyst: IG
T/R Hydrocarbons: C10-C12	ND	10		mg/Kg	1.0	3/7/02
T/R Hydrocarbons: C13-C15	ND	10		mg/Kg	1.0	3/7/02
T/R Hydrocarbons: C16-C22	ND	10		mg/Kg	1.0	3/7/02
T/R Hydrocarbons: C23-C32	ND	10		mg/Kg	1.0	3/7/02
T/R Hydrocarbons: >C32	ND	10		mg/Kg	1.0	3/7/02

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: RA

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Print Date: *3/12/02*

CLIENT: Ninyo & Moore
Client Sample ID: NM5A-30
Lab Order: 055717
Project: Walker/USTS, 203571003
Collection Date: 3/6/02 10:45:00 AM
Lab ID: 055717-029B
Matrix: Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS			**EPA 8260B**			
RunID: **MS3_020309A** BatchID: **R02VOCS054**				PrepDate: **3/6/02**		Analyst: JPC
1,1,1,2-Tetrachloroethane	ND	4.1		µg/Kg	0.83	3/9/02
1,1,1-Trichloroethane	ND	4.1		µg/Kg	0.83	3/9/02
1,1,2,2-Tetrachloroethane	ND	4.1		µg/Kg	0.83	3/9/02
1,1,2-Trichloroethane	ND	4.1		µg/Kg	0.83	3/9/02
1,1-Dichloroethane	ND	4.1		µg/Kg	0.83	3/9/02
1,1-Dichloroethene	ND	4.1		µg/Kg	0.83	3/9/02
1,1-Dichloropropene	ND	4.1		µg/Kg	0.83	3/9/02
1,2,3-Trichlorobenzene	ND	4.1		µg/Kg	0.83	3/9/02
1,2,3-Trichloropropane	ND	4.1		µg/Kg	0.83	3/9/02
1,2,4-Trichlorobenzene	ND	4.1		µg/Kg	0.83	3/9/02
1,2,4-Trimethylbenzene	ND	4.1		µg/Kg	0.83	3/9/02
1,2-Dibromo-3-chloropropane	ND	8.3		µg/Kg	0.83	3/9/02
1,2-Dibromoethane	ND	4.1		µg/Kg	0.83	3/9/02
1,2-Dichlorobenzene	ND	4.1		µg/Kg	0.83	3/9/02
1,2-Dichloroethane	ND	4.1		µg/Kg	0.83	3/9/02
1,2-Dichloropropane	ND	4.1		µg/Kg	0.83	3/9/02
1,3,5-Trimethylbenzene	ND	4.1		µg/Kg	0.83	3/9/02
1,3-Dichlorobenzene	ND	4.1		µg/Kg	0.83	3/9/02
1,3-Dichloropropane	ND	4.1		µg/Kg	0.83	3/9/02
1,4-Dichlorobenzene	ND	4.1		µg/Kg	0.83	3/9/02
2,2-Dichloropropane	ND	4.1		µg/Kg	0.83	3/9/02
2-Chlorotoluene	ND	4.1		µg/Kg	0.83	3/9/02
4-Chlorotoluene	ND	4.1		µg/Kg	0.83	3/9/02
4-Isopropyltoluene	ND	4.1		µg/Kg	0.83	3/9/02
Benzene	ND	4.1		µg/Kg	0.83	3/9/02
Bromobenzene	ND	4.1		µg/Kg	0.83	3/9/02
Bromodichloromethane	ND	4.1		µg/Kg	0.83	3/9/02
Bromoform	ND	4.1		µg/Kg	0.83	3/9/02
Bromomethane	ND	4.1		µg/Kg	0.83	3/9/02
Carbon tetrachloride	ND	4.1		µg/Kg	0.83	3/9/02
Chlorobenzene	ND	4.1		µg/Kg	0.83	3/9/02
Chloroethane	ND	4.1		µg/Kg	0.83	3/9/02
Chloroform	ND	4.1		µg/Kg	0.83	3/9/02
Chloromethane	ND	4.1		µg/Kg	0.83	3/9/02
cis-1,2-Dichloroethene	ND	4.1		µg/Kg	0.83	3/9/02
Dibromochloromethane	ND	4.1		µg/Kg	0.83	3/9/02
Dibromomethane	ND	4.1		µg/Kg	0.83	3/9/02
Dichlorodifluoromethane	ND	4.1		µg/Kg	0.83	3/9/02

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: RA

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Print Date: *3/12/02*

CLIENT: Ninyo & Moore
Client Sample ID: NM5A-30
Lab Order: 055717
Project: Walker/USTS, 203571003
Collection Date: 3/6/02 10:45:00 AM
Lab ID: 055717-029B
Matrix: Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				**EPA 8260B**		
RunID: **MS3_020309A** BatchID: **R02VOCS054**				PrepDate: **3/6/02**		Analyst: JPC
Ethylbenzene	ND	4.1		µg/Kg	0.83	3/9/02
Hexachlorobutadiene	ND	4.1		µg/Kg	0.83	3/9/02
Isopropylbenzene	ND	4.1		µg/Kg	0.83	3/9/02
m,p-Xylene	ND	4.1		µg/Kg	0.83	3/9/02
Methylene chloride	ND	4.1		µg/Kg	0.83	3/9/02
MTBE	ND	4.1		µg/Kg	0.83	3/9/02
n-Butylbenzene	ND	4.1		µg/Kg	0.83	3/9/02
n-Propylbenzene	ND	4.1		µg/Kg	0.83	3/9/02
Naphthalene	ND	4.1		µg/Kg	0.83	3/9/02
o-Xylene	ND	4.1		µg/Kg	0.83	3/9/02
sec-Butylbenzene	ND	4.1		µg/Kg	0.83	3/9/02
Styrene	ND	4.1		µg/Kg	0.83	3/9/02
tert-Butylbenzene	ND	4.1		µg/Kg	0.83	3/9/02
Tetrachloroethene	ND	4.1		µg/Kg	0.83	3/9/02
Toluene	ND	4.1		µg/Kg	0.83	3/9/02
trans-1,2-Dichloroethene	ND	4.1		µg/Kg	0.83	3/9/02
Trichloroethene	ND	4.1		µg/Kg	0.83	3/9/02
Trichlorofluoromethane	ND	4.1		µg/Kg	0.83	3/9/02
Vinyl chloride	ND	4.1		µg/Kg	0.83	3/9/02
VOLATILE ORGANIC COMPOUNDS BY GC/MS				**EPA 8260B**		
RunID: **MS3_020309A** BatchID: **R02VOCS054**				PrepDate: **3/6/02**		Analyst: JPC
1,2-Dibromoethane	ND	4.1		µg/Kg	0.83	3/9/02
1,2-Dichloroethane	ND	4.1		µg/Kg	0.83	3/9/02
Di-isopropyl ether	ND	4.1		µg/Kg	0.83	3/9/02
Ethyl Tert-butyl ether	ND	4.1		µg/Kg	0.83	3/9/02
Tert-amyl methyl ether	ND	4.1		µg/Kg	0.83	3/9/02
Tert-Butanol	ND	83		µg/Kg	0.83	3/9/02

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: RA

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Print Date: *3/12/02*

CLIENT: Ninyo & Moore
Client Sample ID: NM5A-40
Lab Order: 055717
Project: Walker/USTS, 203571003
Collection Date: 3/6/02 11:10:00 AM
Lab ID: 055717-031A
Matrix: Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
HYDROCARBON CHAIN IDENTIFICATION				**EPA 8015B**		
RunID: **GC7_020307A** BatchID: **7803**				PrepDate: **3/7/02**		Analyst: IG
T/R Hydrocarbons: C10-C12	ND	10		mg/Kg	1.0	3/8/02
T/R Hydrocarbons: C13-C15	ND	10		mg/Kg	1.0	3/8/02
T/R Hydrocarbons: C16-C22	ND	10		mg/Kg	1.0	3/8/02
T/R Hydrocarbons: C23-C32	ND	10		mg/Kg	1.0	3/8/02
T/R Hydrocarbons: >C32	ND	10		mg/Kg	1.0	3/8/02

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: RA

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Print Date: *3/12/02*

CLIENT: Ninyo & Moore
Client Sample ID: NM5A-40
Lab Order: 055717
Project: Walker/USTS, 203571003
Collection Date: 3/6/02 11:10:00 AM
Lab ID: 055717-031B
Matrix: Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS			**EPA 8260B**			
RunID: **MS3_020309A** BatchID: **R02VOCS054**				PrepDate: **3/6/02**		Analyst: JPC
1,1,1,2-Tetrachloroethane	ND	4.8		µg/Kg	0.96	3/9/02
1,1,1-Trichloroethane	ND	4.8		µg/Kg	0.96	3/9/02
1,1,2,2-Tetrachloroethane	ND	4.8		µg/Kg	0.96	3/9/02
1,1,2-Trichloroethane	ND	4.8		µg/Kg	0.96	3/9/02
1,1-Dichloroethane	ND	4.8		µg/Kg	0.96	3/9/02
1,1-Dichloroethene	ND	4.8		µg/Kg	0.96	3/9/02
1,1-Dichloropropene	ND	4.8		µg/Kg	0.96	3/9/02
1,2,3-Trichlorobenzene	ND	4.8		µg/Kg	0.96	3/9/02
1,2,3-Trichloropropane	ND	4.8		µg/Kg	0.96	3/9/02
1,2,4-Trichlorobenzene	ND	4.8		µg/Kg	0.96	3/9/02
1,2,4-Trimethylbenzene	ND	4.8		µg/Kg	0.96	3/9/02
1,2-Dibromo-3-chloropropane	ND	9.6		µg/Kg	0.96	3/9/02
1,2-Dibromoethane	ND	4.8		µg/Kg	0.96	3/9/02
1,2-Dichlorobenzene	ND	4.8		µg/Kg	0.96	3/9/02
1,2-Dichloroethane	ND	4.8		µg/Kg	0.96	3/9/02
1,2-Dichloropropane	ND	4.8		µg/Kg	0.96	3/9/02
1,3,5-Trimethylbenzene	ND	4.8		µg/Kg	0.96	3/9/02
1,3-Dichlorobenzene	ND	4.8		µg/Kg	0.96	3/9/02
1,3-Dichloropropane	ND	4.8		µg/Kg	0.96	3/9/02
1,4-Dichlorobenzene	ND	4.8		µg/Kg	0.96	3/9/02
2,2-Dichloropropane	ND	4.8		µg/Kg	0.96	3/9/02
2-Chlorotoluene	ND	4.8		µg/Kg	0.96	3/9/02
4-Chlorotoluene	ND	4.8		µg/Kg	0.96	3/9/02
4-Isopropyltoluene	ND	4.8		µg/Kg	0.96	3/9/02
Benzene	ND	4.8		µg/Kg	0.96	3/9/02
Bromobenzene	ND	4.8		µg/Kg	0.96	3/9/02
Bromodichloromethane	ND	4.8		µg/Kg	0.96	3/9/02
Bromoform	ND	4.8		µg/Kg	0.96	3/9/02
Bromomethane	ND	4.8		µg/Kg	0.96	3/9/02
Carbon tetrachloride	ND	4.8		µg/Kg	0.96	3/9/02
Chlorobenzene	ND	4.8		µg/Kg	0.96	3/9/02
Chloroethane	ND	4.8		µg/Kg	0.96	3/9/02
Chloroform	ND	4.8		µg/Kg	0.96	3/9/02
Chloromethane	ND	4.8		µg/Kg	0.96	3/9/02
cis-1,2-Dichloroethene	ND	4.8		µg/Kg	0.96	3/9/02
Dibromochloromethane	ND	4.8		µg/Kg	0.96	3/9/02
Dibromomethane	ND	4.8		µg/Kg	0.96	3/9/02
Dichlorodifluoromethane	ND	4.8		µg/Kg	0.96	3/9/02

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: RA

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Print Date: *3/12/02*

CLIENT: Ninyo & Moore
Client Sample ID: NM5A-40
Lab Order: 055717
Project: Walker/USTS, 203571003
Collection Date: 3/6/02 11:10:00 AM
Lab ID: 055717-031B
Matrix: Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS			**EPA 8260B**			
RunID: **MS3_020309A** BatchID: **R02VOCS054**			PrepDate: **3/6/02**			Analyst: JPC
Ethylbenzene	ND	4.8		µg/Kg	0.96	3/9/02
Hexachlorobutadiene	ND	4.8		µg/Kg	0.96	3/9/02
Isopropylbenzene	ND	4.8		µg/Kg	0.96	3/9/02
m,p-Xylene	ND	4.8		µg/Kg	0.96	3/9/02
Methylene chloride	ND	4.8		µg/Kg	0.96	3/9/02
MTBE	ND	4.8		µg/Kg	0.96	3/9/02
n-Butylbenzene	ND	4.8		µg/Kg	0.96	3/9/02
n-Propylbenzene	ND	4.8		µg/Kg	0.96	3/9/02
Naphthalene	ND	4.8		µg/Kg	0.96	3/9/02
o-Xylene	ND	4.8		µg/Kg	0.96	3/9/02
sec-Butylbenzene	ND	4.8		µg/Kg	0.96	3/9/02
Styrene	ND	4.8		µg/Kg	0.96	3/9/02
tert-Butylbenzene	ND	4.8		µg/Kg	0.96	3/9/02
Tetrachloroethene	ND	4.8		µg/Kg	0.96	3/9/02
Toluene	ND	4.8		µg/Kg	0.96	3/9/02
trans-1,2-Dichloroethene	ND	4.8		µg/Kg	0.96	3/9/02
Trichloroethene	ND	4.8		µg/Kg	0.96	3/9/02
Trichlorofluoromethane	ND	4.8		µg/Kg	0.96	3/9/02
Vinyl chloride	ND	4.8		µg/Kg	0.96	3/9/02
VOLATILE ORGANIC COMPOUNDS BY GC/MS			**EPA 8260B**			
RunID: **MS3_020309A** BatchID: **R02VOCS054**			PrepDate: **3/6/02**			Analyst: JPC
1,2-Dibromoethane	ND	4.8		µg/Kg	0.96	3/9/02
1,2-Dichloroethane	ND	4.8		µg/Kg	0.96	3/9/02
Di-isopropyl ether	ND	4.8		µg/Kg	0.96	3/9/02
Ethyl Tert-butyl ether	ND	4.8		µg/Kg	0.96	3/9/02
Tert-amyl methyl ether	ND	4.8		µg/Kg	0.96	3/9/02
Tert-Butanol	ND	96		µg/Kg	0.96	3/9/02

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored, Highly Reactive

Initials: RA

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Print Date: *3/12/02*

CLIENT: Ninyo & Moore
Client Sample ID: NM5B-5
Lab Order: 055717
Project: Walker/USTS, 203571003
Collection Date: 3/6/02 11:32:00 AM
Lab ID: 055717-032A
Matrix: Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
HYDROCARBON CHAIN IDENTIFICATION				**EPA 8015B**		
RunID: **GC7_020307A** BatchID: **7803**				PrepDate: **3/7/02**		Analyst: IG
T/R Hydrocarbons: C10-C12	ND	10		mg/Kg	1.0	3/8/02
T/R Hydrocarbons: C13-C15	ND	10		mg/Kg	1.0	3/8/02
T/R Hydrocarbons: C16-C22	ND	10		mg/Kg	1.0	3/8/02
T/R Hydrocarbons: C23-C32	ND	10		mg/Kg	1.0	3/8/02
T/R Hydrocarbons: >C32	ND	10		mg/Kg	1.0	3/8/02

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: RA

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Print Date: *3/12/02*

CLIENT: Ninyo & Moore **Client Sample ID:** NM5B-5
Lab Order: 055717
Project: Walker/USTS, 203571003 **Collection Date:** 3/6/02 11:32:00 AM
Lab ID: 055717-032B **Matrix:** Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS			**EPA 8260B**			
RunID: **MS3_020309A** BatchID: **R02VOCS054**				PrepDate: **3/6/02**		Analyst: **JPC**
1,1,1,2-Tetrachloroethane	ND	3.7		µg/Kg	0.73	3/9/02
1,1,1-Trichloroethane	ND	3.7		µg/Kg	0.73	3/9/02
1,1,2,2-Tetrachloroethane	ND	3.7		µg/Kg	0.73	3/9/02
1,1,2-Trichloroethane	ND	3.7		µg/Kg	0.73	3/9/02
1,1-Dichloroethane	ND	3.7		µg/Kg	0.73	3/9/02
1,1-Dichloroethene	ND	3.7		µg/Kg	0.73	3/9/02
1,1-Dichloropropene	ND	3.7		µg/Kg	0.73	3/9/02
1,2,3-Trichlorobenzene	ND	3.7		µg/Kg	0.73	3/9/02
1,2,3-Trichloropropane	ND	3.7		µg/Kg	0.73	3/9/02
1,2,4-Trichlorobenzene	ND	3.7		µg/Kg	0.73	3/9/02
1,2,4-Trimethylbenzene	ND	3.7		µg/Kg	0.73	3/9/02
1,2-Dibromo-3-chloropropane	ND	7.3		µg/Kg	0.73	3/9/02
1,2-Dibromoethane	ND	3.7		µg/Kg	0.73	3/9/02
1,2-Dichlorobenzene	ND	3.7		µg/Kg	0.73	3/9/02
1,2-Dichloroethane	ND	3.7		µg/Kg	0.73	3/9/02
1,2-Dichloropropane	ND	3.7		µg/Kg	0.73	3/9/02
1,3,5-Trimethylbenzene	ND	3.7		µg/Kg	0.73	3/9/02
1,3-Dichlorobenzene	ND	3.7		µg/Kg	0.73	3/9/02
1,3-Dichloropropane	ND	3.7		µg/Kg	0.73	3/9/02
1,4-Dichlorobenzene	ND	3.7		µg/Kg	0.73	3/9/02
2,2-Dichloropropane	ND	3.7		µg/Kg	0.73	3/9/02
2-Chlorotoluene	ND	3.7		µg/Kg	0.73	3/9/02
4-Chlorotoluene	ND	3.7		µg/Kg	0.73	3/9/02
4-Isopropyltoluene	ND	3.7		µg/Kg	0.73	3/9/02
Benzene	ND	3.7		µg/Kg	0.73	3/9/02
Bromobenzene	ND	3.7		µg/Kg	0.73	3/9/02
Bromodichloromethane	ND	3.7		µg/Kg	0.73	3/9/02
Bromoform	ND	3.7		µg/Kg	0.73	3/9/02
Bromomethane	ND	3.7		µg/Kg	0.73	3/9/02
Carbon tetrachloride	ND	3.7		µg/Kg	0.73	3/9/02
Chlorobenzene	ND	3.7		µg/Kg	0.73	3/9/02
Chloroethane	ND	3.7		µg/Kg	0.73	3/9/02
Chloroform	ND	3.7		µg/Kg	0.73	3/9/02
Chloromethane	ND	3.7		µg/Kg	0.73	3/9/02
cis-1,2-Dichloroethene	ND	3.7		µg/Kg	0.73	3/9/02
Dibromochloromethane	ND	3.7		µg/Kg	0.73	3/9/02
Dibromomethane	ND	3.7		µg/Kg	0.73	3/9/02
Dichlorodifluoromethane	ND	3.7		µg/Kg	0.73	3/9/02

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: RA

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Print Date: *3/12/02*

CLIENT: Ninyo & Moore **Client Sample ID:** NM5B-5
Lab Order: 055717
Project: Walker/USTS, 203571003 **Collection Date:** 3/6/02 11:32:00 AM
Lab ID: 055717-032B **Matrix:** Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				**EPA 8260B**		
RunID: **MS3_020309A** BatchID: **R02VOCS054**				PrepDate: **3/6/02**		Analyst: **JPC**
Ethylbenzene	ND	3.7		µg/Kg	0.73	3/9/02
Hexachlorobutadiene	ND	3.7		µg/Kg	0.73	3/9/02
Isopropylbenzene	ND	3.7		µg/Kg	0.73	3/9/02
m,p-Xylene	ND	3.7		µg/Kg	0.73	3/9/02
Methylene chloride	ND	3.7		µg/Kg	0.73	3/9/02
MTBE	ND	3.7		µg/Kg	0.73	3/9/02
n-Butylbenzene	ND	3.7		µg/Kg	0.73	3/9/02
n-Propylbenzene	ND	3.7		µg/Kg	0.73	3/9/02
Naphthalene	ND	3.7		µg/Kg	0.73	3/9/02
o-Xylene	ND	3.7		µg/Kg	0.73	3/9/02
sec-Butylbenzene	ND	3.7		µg/Kg	0.73	3/9/02
Styrene	ND	3.7		µg/Kg	0.73	3/9/02
tert-Butylbenzene	ND	3.7		µg/Kg	0.73	3/9/02
Tetrachloroethene	ND	3.7		µg/Kg	0.73	3/9/02
Toluene	ND	3.7		µg/Kg	0.73	3/9/02
trans-1,2-Dichloroethene	ND	3.7		µg/Kg	0.73	3/9/02
Trichloroethene	ND	3.7		µg/Kg	0.73	3/9/02
Trichlorofluoromethane	ND	3.7		µg/Kg	0.73	3/9/02
Vinyl chloride	ND	3.7		µg/Kg	0.73	3/9/02
VOLATILE ORGANIC COMPOUNDS BY GC/MS				**EPA 8260B**		
RunID: **MS3_020309A** BatchID: **R02VOCS054**				PrepDate: **3/6/02**		Analyst: **JPC**
1,2-Dibromoethane	ND	3.7		µg/Kg	0.73	3/9/02
1,2-Dichloroethane	ND	3.7		µg/Kg	0.73	3/9/02
Di-isopropyl ether	ND	3.7		µg/Kg	0.73	3/9/02
Ethyl Tert-butyl ether	ND	3.7		µg/Kg	0.73	3/9/02
Tert-amyl methyl ether	ND	3.7		µg/Kg	0.73	3/9/02
Tert-Butanol	ND	73		µg/Kg	0.73	3/9/02

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: RA

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Print Date: *3/12/02*

CLIENT: Ninyo & Moore
Client Sample ID: NM5B-10
Lab Order: 055717
Project: Walker/USTS, 203571003
Collection Date: 3/6/02 11:36:00 AM
Lab ID: 055717-033A
Matrix: Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS			**EPA 6010B**			
RunID: **ICP2_020312A** BatchID: **7839**				PrepDate: **3/11/02**		Analyst: **RQ**
Antimony	1.0	0.25		mg/Kg	1.0	3/12/02
Arsenic	15	0.25		mg/Kg	1.0	3/12/02
Barium	130	0.15		mg/Kg	1.0	3/12/02
Beryllium	ND	0.15		mg/Kg	1.0	3/12/02
Cadmium	ND	0.15		mg/Kg	1.0	3/12/02
Chromium	26	0.15		mg/Kg	1.0	3/12/02
Cobalt	12	0.15		mg/Kg	1.0	3/12/02
Copper	36	0.15		mg/Kg	1.0	3/12/02
Lead	4.5	0.25		mg/Kg	1.0	3/12/02
Molybdenum	0.33	0.25		mg/Kg	1.0	3/12/02
Nickel	21	0.15		mg/Kg	1.0	3/12/02
Selenium	ND	0.25		mg/Kg	1.0	3/12/02
Silver	ND	0.15		mg/Kg	1.0	3/12/02
Thallium	0.50	0.25		mg/Kg	1.0	3/12/02
Vanadium	44	0.15		mg/Kg	1.0	3/12/02
Zinc	65	0.50		mg/Kg	1.0	3/12/02
MERCURY BY COLD VAPOR TECHNIQUE			**EPA 7471A**			
RunID: **AA1_020308B** BatchID: **7812**				PrepDate: **3/8/02**		Analyst: **NS**
Mercury	ND	0.10		mg/Kg	1.0	3/8/02
HYDROCARBON CHAIN IDENTIFICATION			**EPA 8015B**			
RunID: **GC7_020307A** BatchID: **7803**				PrepDate: **3/7/02**		Analyst: **IG**
T/R Hydrocarbons: C10-C12	ND	10		mg/Kg	1.0	3/8/02
T/R Hydrocarbons: C13-C15	ND	10		mg/Kg	1.0	3/8/02
T/R Hydrocarbons: C16-C22	ND	10		mg/Kg	1.0	3/8/02
T/R Hydrocarbons: C23-C32	ND	10		mg/Kg	1.0	3/8/02
T/R Hydrocarbons: >C32	ND	10		mg/Kg	1.0	3/8/02

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: RA

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Print Date: *3/12/02*

CLIENT: Ninyo & Moore
Client Sample ID: NM5B-10
Lab Order: 055717
Project: Walker/USTS, 203571003
Collection Date: 3/6/02 11:36:00 AM
Lab ID: 055717-033B
Matrix: Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				**EPA 8260B**		
RunID: **MS3_020309A** BatchID: **R02VOCS054**				PrepDate: **3/6/02**		Analyst: **JPC**
1,1,1,2-Tetrachloroethane	ND	4.7		µg/Kg	0.95	3/9/02
1,1,1-Trichloroethane	ND	4.7		µg/Kg	0.95	3/9/02
1,1,2,2-Tetrachloroethane	ND	4.7		µg/Kg	0.95	3/9/02
1,1,2-Trichloroethane	ND	4.7		µg/Kg	0.95	3/9/02
1,1-Dichloroethane	ND	4.7		µg/Kg	0.95	3/9/02
1,1-Dichloroethene	ND	4.7		µg/Kg	0.95	3/9/02
1,1-Dichloropropene	ND	4.7		µg/Kg	0.95	3/9/02
1,2,3-Trichlorobenzene	ND	4.7		µg/Kg	0.95	3/9/02
1,2,3-Trichloropropane	ND	4.7		µg/Kg	0.95	3/9/02
1,2,4-Trichlorobenzene	ND	4.7		µg/Kg	0.95	3/9/02
1,2,4-Trimethylbenzene	ND	4.7		µg/Kg	0.95	3/9/02
1,2-Dibromo-3-chloropropane	ND	9.5		µg/Kg	0.95	3/9/02
1,2-Dibromoethane	ND	4.7		µg/Kg	0.95	3/9/02
1,2-Dichlorobenzene	ND	4.7		µg/Kg	0.95	3/9/02
1,2-Dichloroethane	ND	4.7		µg/Kg	0.95	3/9/02
1,2-Dichloropropane	ND	4.7		µg/Kg	0.95	3/9/02
1,3,5-Trimethylbenzene	ND	4.7		µg/Kg	0.95	3/9/02
1,3-Dichlorobenzene	ND	4.7		µg/Kg	0.95	3/9/02
1,3-Dichloropropane	ND	4.7		µg/Kg	0.95	3/9/02
1,4-Dichlorobenzene	ND	4.7		µg/Kg	0.95	3/9/02
2,2-Dichloropropane	ND	4.7		µg/Kg	0.95	3/9/02
2-Chlorotoluene	ND	4.7		µg/Kg	0.95	3/9/02
4-Chlorotoluene	ND	4.7		µg/Kg	0.95	3/9/02
4-Isopropyltoluene	ND	4.7		µg/Kg	0.95	3/9/02
Benzene	ND	4.7		µg/Kg	0.95	3/9/02
Bromobenzene	ND	4.7		µg/Kg	0.95	3/9/02
Bromodichloromethane	ND	4.7		µg/Kg	0.95	3/9/02
Bromoform	ND	4.7		µg/Kg	0.95	3/9/02
Bromomethane	ND	4.7		µg/Kg	0.95	3/9/02
Carbon tetrachloride	ND	4.7		µg/Kg	0.95	3/9/02
Chlorobenzene	ND	4.7		µg/Kg	0.95	3/9/02
Chloroethane	ND	4.7		µg/Kg	0.95	3/9/02
Chloroform	ND	4.7		µg/Kg	0.95	3/9/02
Chloromethane	ND	4.7		µg/Kg	0.95	3/9/02
cis-1,2-Dichloroethene	ND	4.7		µg/Kg	0.95	3/9/02
Dibromochloromethane	ND	4.7		µg/Kg	0.95	3/9/02
Dibromomethane	ND	4.7		µg/Kg	0.95	3/9/02
Dichlorodifluoromethane	ND	4.7		µg/Kg	0.95	3/9/02

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: RA

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Print Date: *3/12/02*

CLIENT: Ninyo & Moore
Client Sample ID: NM5B-10
Lab Order: 055717
Project: Walker/USTS, 203571003
Collection Date: 3/6/02 11:36:00 AM
Lab ID: 055717-033B
Matrix: Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				**EPA 8260B**		
RunID: **MS3_020309A** BatchID: **R02VOCS054**				PrepDate: **3/6/02**		Analyst: JPC
Ethylbenzene	ND	4.7		µg/Kg	0.95	3/9/02
Hexachlorobutadiene	ND	4.7		µg/Kg	0.95	3/9/02
Isopropylbenzene	ND	4.7		µg/Kg	0.95	3/9/02
m,p-Xylene	ND	4.7		µg/Kg	0.95	3/9/02
Methylene chloride	ND	4.7		µg/Kg	0.95	3/9/02
MTBE	ND	4.7		µg/Kg	0.95	3/9/02
n-Butylbenzene	ND	4.7		µg/Kg	0.95	3/9/02
n-Propylbenzene	ND	4.7		µg/Kg	0.95	3/9/02
Naphthalene	ND	4.7		µg/Kg	0.95	3/9/02
o-Xylene	ND	4.7		µg/Kg	0.95	3/9/02
sec-Butylbenzene	ND	4.7		µg/Kg	0.95	3/9/02
Styrene	ND	4.7		µg/Kg	0.95	3/9/02
tert-Butylbenzene	ND	4.7		µg/Kg	0.95	3/9/02
Tetrachloroethene	ND	4.7		µg/Kg	0.95	3/9/02
Toluene	ND	4.7		µg/Kg	0.95	3/9/02
trans-1,2-Dichloroethene	ND	4.7		µg/Kg	0.95	3/9/02
Trichloroethene	ND	4.7		µg/Kg	0.95	3/9/02
Trichlorofluoromethane	ND	4.7		µg/Kg	0.95	3/9/02
Vinyl chloride	ND	4.7		µg/Kg	0.95	3/9/02
VOLATILE ORGANIC COMPOUNDS BY GC/MS				**EPA 8260B**		
RunID: **MS3_020309A** BatchID: **R02VOCS054**				PrepDate: **3/6/02**		Analyst: JPC
1,2-Dibromoethane	ND	4.7		µg/Kg	0.95	3/9/02
1,2-Dichloroethane	ND	4.7		µg/Kg	0.95	3/9/02
Di-isopropyl ether	ND	4.7		µg/Kg	0.95	3/9/02
Ethyl Tert-butyl ether	ND	4.7		µg/Kg	0.95	3/9/02
Tert-amyl methyl ether	ND	4.7		µg/Kg	0.95	3/9/02
Tert-Butanol	ND	95		µg/Kg	0.95	3/9/02

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: RA

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Print Date: *3/12/02*

CLIENT: Ninyo & Moore
Client Sample ID: NM5B-20
Lab Order: 055717
Project: Walker/USTS, 203571003
Collection Date: 3/6/02 11:50:00 AM
Lab ID: 055717-035A
Matrix: Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
HYDROCARBON CHAIN IDENTIFICATION			**EPA 8015B**			
RunID: GC7_020307A BatchID: 7803				PrepDate: 3/7/02		Analyst: IG
T/R Hydrocarbons: C10-C12	ND	10		mg/Kg	1.0	3/8/02
T/R Hydrocarbons: C13-C15	ND	10		mg/Kg	1.0	3/8/02
T/R Hydrocarbons: C16-C22	ND	10		mg/Kg	1.0	3/8/02
T/R Hydrocarbons: C23-C32	16	10		mg/Kg	1.0	3/8/02
T/R Hydrocarbons: >C32	ND	10		mg/Kg	1.0	3/8/02

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored, Highly Reactive

Initials: RA

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Print Date: *3/12/02*

CLIENT: Ninyo & Moore
Client Sample ID: NM5B-20
Lab Order: 055717
Project: Walker/USTS, 203571003
Collection Date: 3/6/02 11:50:00 AM
Lab ID: 055717-035B
Matrix: Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS			**EPA 8260B**			
RunID: **MS3_020309A** BatchID: **R02VOCS054**			PrepDate: **3/6/02**			Analyst: **JPC**
1,1,1,2-Tetrachloroethane	ND	5.2		µg/Kg	1.0	3/9/02
1,1,1-Trichloroethane	ND	5.2		µg/Kg	1.0	3/9/02
1,1,2,2-Tetrachloroethane	ND	5.2		µg/Kg	1.0	3/9/02
1,1,2-Trichloroethane	ND	5.2		µg/Kg	1.0	3/9/02
1,1-Dichloroethane	ND	5.2		µg/Kg	1.0	3/9/02
1,1-Dichloroethene	ND	5.2		µg/Kg	1.0	3/9/02
1,1-Dichloropropene	ND	5.2		µg/Kg	1.0	3/9/02
1,2,3-Trichlorobenzene	ND	5.2		µg/Kg	1.0	3/9/02
1,2,3-Trichloropropane	ND	5.2		µg/Kg	1.0	3/9/02
1,2,4-Trichlorobenzene	ND	5.2		µg/Kg	1.0	3/9/02
1,2,4-Trimethylbenzene	ND	5.2		µg/Kg	1.0	3/9/02
1,2-Dibromo-3-chloropropane	ND	10		µg/Kg	1.0	3/9/02
1,2-Dibromoethane	ND	5.2		µg/Kg	1.0	3/9/02
1,2-Dichlorobenzene	ND	5.2		µg/Kg	1.0	3/9/02
1,2-Dichloroethane	ND	5.2		µg/Kg	1.0	3/9/02
1,2-Dichloropropane	ND	5.2		µg/Kg	1.0	3/9/02
1,3,5-Trimethylbenzene	ND	5.2		µg/Kg	1.0	3/9/02
1,3-Dichlorobenzene	ND	5.2		µg/Kg	1.0	3/9/02
1,3-Dichloropropane	ND	5.2		µg/Kg	1.0	3/9/02
1,4-Dichlorobenzene	ND	5.2		µg/Kg	1.0	3/9/02
2,2-Dichloropropane	ND	5.2		µg/Kg	1.0	3/9/02
2-Chlorotoluene	ND	5.2		µg/Kg	1.0	3/9/02
4-Chlorotoluene	ND	5.2		µg/Kg	1.0	3/9/02
4-Isopropyltoluene	ND	5.2		µg/Kg	1.0	3/9/02
Benzene	ND	5.2		µg/Kg	1.0	3/9/02
Bromobenzene	ND	5.2		µg/Kg	1.0	3/9/02
Bromodichloromethane	ND	5.2		µg/Kg	1.0	3/9/02
Bromoform	ND	5.2		µg/Kg	1.0	3/9/02
Bromomethane	ND	5.2		µg/Kg	1.0	3/9/02
Carbon tetrachloride	ND	5.2		µg/Kg	1.0	3/9/02
Chlorobenzene	ND	5.2		µg/Kg	1.0	3/9/02
Chloroethane	ND	5.2		µg/Kg	1.0	3/9/02
Chloroform	ND	5.2		µg/Kg	1.0	3/9/02
Chloromethane	ND	5.2		µg/Kg	1.0	3/9/02
cis-1,2-Dichloroethene	ND	5.2		µg/Kg	1.0	3/9/02
Dibromochloromethane	ND	5.2		µg/Kg	1.0	3/9/02
Dibromomethane	ND	5.2		µg/Kg	1.0	3/9/02
Dichlorodifluoromethane	ND	5.2		µg/Kg	1.0	3/9/02

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: RA

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Print Date: *3/12/02*

CLIENT: Ninyo & Moore
Client Sample ID: NM5B-20
Lab Order: 055717
Project: Walker/USTS, 203571003
Collection Date: 3/6/02 11:50:00 AM
Lab ID: 055717-035B
Matrix: Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				**EPA 8260B**		
RunID: **MS3_020309A** BatchID: **R02VOCS054**				PrepDate: **3/6/02**		Analyst: **JPC**
Ethylbenzene	ND	5.2		µg/Kg	1.0	3/9/02
Hexachlorobutadiene	ND	5.2		µg/Kg	1.0	3/9/02
Isopropylbenzene	ND	5.2		µg/Kg	1.0	3/9/02
m,p-Xylene	ND	5.2		µg/Kg	1.0	3/9/02
Methylene chloride	ND	5.2		µg/Kg	1.0	3/9/02
MTBE	ND	5.2		µg/Kg	1.0	3/9/02
n-Butylbenzene	ND	5.2		µg/Kg	1.0	3/9/02
n-Propylbenzene	ND	5.2		µg/Kg	1.0	3/9/02
Naphthalene	ND	5.2		µg/Kg	1.0	3/9/02
o-Xylene	ND	5.2		µg/Kg	1.0	3/9/02
sec-Butylbenzene	ND	5.2		µg/Kg	1.0	3/9/02
Styrene	ND	5.2		µg/Kg	1.0	3/9/02
tert-Butylbenzene	ND	5.2		µg/Kg	1.0	3/9/02
Tetrachloroethene	ND	5.2		µg/Kg	1.0	3/9/02
Toluene	ND	5.2		µg/Kg	1.0	3/9/02
trans-1,2-Dichloroethene	ND	5.2		µg/Kg	1.0	3/9/02
Trichloroethene	ND	5.2		µg/Kg	1.0	3/9/02
Trichlorofluoromethane	ND	5.2		µg/Kg	1.0	3/9/02
Vinyl chloride	ND	5.2		µg/Kg	1.0	3/9/02
VOLATILE ORGANIC COMPOUNDS BY GC/MS				**EPA 8260B**		
RunID: **MS3_020309A** BatchID: **R02VOCS054**				PrepDate: **3/6/02**		Analyst: **JPC**
1,2-Dibromoethane	ND	5.2		µg/Kg	1.0	3/9/02
1,2-Dichloroethane	ND	5.2		µg/Kg	1.0	3/9/02
Di-isopropyl ether	ND	5.2		µg/Kg	1.0	3/9/02
Ethyl Tert-butyl ether	ND	5.2		µg/Kg	1.0	3/9/02
Tert-amyl methyl ether	ND	5.2		µg/Kg	1.0	3/9/02
Tert-Butanol	ND	100		µg/Kg	1.0	3/9/02

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: RA

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Print Date: *3/12/02*

CLIENT: Ninyo & Moore **Client Sample ID:** NM6A-5
Lab Order: 055717
Project: Walker/USTS, 203571003 **Collection Date:** 3/6/02 7:26:00 AM
Lab ID: 055717-012A **Matrix:** Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
HYDROCARBON CHAIN IDENTIFICATION			**EPA 8015B**			
RunID: **GC7_020307A** BatchID: **7803**				PrepDate: **3/7/02**		Analyst: **IG**
T/R Hydrocarbons: C10-C12	ND	10		mg/Kg	1.0	3/7/02
T/R Hydrocarbons: C13-C15	ND	10		mg/Kg	1.0	3/7/02
T/R Hydrocarbons: C16-C22	45	10		mg/Kg	1.0	3/7/02
T/R Hydrocarbons: C23-C32	220	10		mg/Kg	1.0	3/7/02
T/R Hydrocarbons: >C32	140	10		mg/Kg	1.0	3/7/02

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: RA

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Print Date: *3/12/02*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	NM6A-5
Lab Order:	055717		
Project:	Walker/USTS, 203571003	**Collection Date:**	3/6/02 7:26:00 AM
Lab ID:	055717-012B	**Matrix:**	Soil

VOLATILE ORGANIC COMPOUNDS BY GC/MS **EPA 8260B**

RunID: **MS3_020308B** BatchID: **R02VOCS053** PrepDate: **3/8/02** Analyst: JPC

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	3.8		µg/Kg	0.76	3/9/02
1,1,1-Trichloroethane	ND	3.8		µg/Kg	0.76	3/9/02
1,1,2,2-Tetrachloroethane	ND	3.8		µg/Kg	0.76	3/9/02
1,1,2-Trichloroethane	ND	3.8		µg/Kg	0.76	3/9/02
1,1-Dichloroethane	ND	3.8		µg/Kg	0.76	3/9/02
1,1-Dichloroethene	ND	3.8		µg/Kg	0.76	3/9/02
1,1-Dichloropropene	ND	3.8		µg/Kg	0.76	3/9/02
1,2,3-Trichlorobenzene	ND	3.8		µg/Kg	0.76	3/9/02
1,2,3-Trichloropropane	ND	3.8		µg/Kg	0.76	3/9/02
1,2,4-Trichlorobenzene	ND	3.8		µg/Kg	0.76	3/9/02
1,2,4-Trimethylbenzene	ND	3.8		µg/Kg	0.76	3/9/02
1,2-Dibromo-3-chloropropane	ND	7.6		µg/Kg	0.76	3/9/02
1,2-Dibromoethane	ND	3.8		µg/Kg	0.76	3/9/02
1,2-Dichlorobenzene	ND	3.8		µg/Kg	0.76	3/9/02
1,2-Dichloroethane	ND	3.8		µg/Kg	0.76	3/9/02
1,2-Dichloropropane	ND	3.8		µg/Kg	0.76	3/9/02
1,3,5-Trimethylbenzene	ND	3.8		µg/Kg	0.76	3/9/02
1,3-Dichlorobenzene	ND	3.8		µg/Kg	0.76	3/9/02
1,3-Dichloropropane	ND	3.8		µg/Kg	0.76	3/9/02
1,4-Dichlorobenzene	ND	3.8		µg/Kg	0.76	3/9/02
2,2-Dichloropropane	ND	3.8		µg/Kg	0.76	3/9/02
2-Chlorotoluene	ND	3.8		µg/Kg	0.76	3/9/02
4-Chlorotoluene	ND	3.8		µg/Kg	0.76	3/9/02
4-Isopropyltoluene	ND	3.8		µg/Kg	0.76	3/9/02
Benzene	ND	3.8		µg/Kg	0.76	3/9/02
Bromobenzene	ND	3.8		µg/Kg	0.76	3/9/02
Bromodichloromethane	ND	3.8		µg/Kg	0.76	3/9/02
Bromoform	ND	3.8		µg/Kg	0.76	3/9/02
Bromomethane	ND	3.8		µg/Kg	0.76	3/9/02
Carbon tetrachloride	ND	3.8		µg/Kg	0.76	3/9/02
Chlorobenzene	ND	3.8		µg/Kg	0.76	3/9/02
Chloroethane	ND	3.8		µg/Kg	0.76	3/9/02
Chloroform	ND	3.8		µg/Kg	0.76	3/9/02
Chloromethane	ND	3.8		µg/Kg	0.76	3/9/02
cis-1,2-Dichloroethene	ND	3.8		µg/Kg	0.76	3/9/02
Dibromochloromethane	ND	3.8		µg/Kg	0.76	3/9/02
Dibromomethane	ND	3.8		µg/Kg	0.76	3/9/02
Dichlorodifluoromethane	ND	3.8		µg/Kg	0.76	3/9/02

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: RA

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Print Date: *3/12/02*

CLIENT:	Ninyo & Moore	**Client Sample ID:**	NM6A-5
Lab Order:	055717		
Project:	Walker/USTS, 203571003	**Collection Date:**	3/6/02 7:26:00 AM
Lab ID:	055717-012B	**Matrix:**	Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS			**EPA 8260B**			
RunID: **MS3_020308B** BatchID: **R02VOCS053**				PrepDate: **3/8/02**		Analyst: **JPC**
Ethylbenzene	ND	3.8		µg/Kg	0.76	3/9/02
Hexachlorobutadiene	ND	3.8		µg/Kg	0.76	3/9/02
Isopropylbenzene	ND	3.8		µg/Kg	0.76	3/9/02
m,p-Xylene	ND	3.8		µg/Kg	0.76	3/9/02
Methylene chloride	ND	3.8		µg/Kg	0.76	3/9/02
MTBE	ND	3.8		µg/Kg	0.76	3/9/02
n-Butylbenzene	ND	3.8		µg/Kg	0.76	3/9/02
n-Propylbenzene	ND	3.8		µg/Kg	0.76	3/9/02
Naphthalene	ND	3.8		µg/Kg	0.76	3/9/02
o-Xylene	ND	3.8		µg/Kg	0.76	3/9/02
sec-Butylbenzene	ND	3.8		µg/Kg	0.76	3/9/02
Styrene	ND	3.8		µg/Kg	0.76	3/9/02
tert-Butylbenzene	ND	3.8		µg/Kg	0.76	3/9/02
Tetrachloroethene	ND	3.8		µg/Kg	0.76	3/9/02
Toluene	ND	3.8		µg/Kg	0.76	3/9/02
trans-1,2-Dichloroethene	ND	3.8		µg/Kg	0.76	3/9/02
Trichloroethene	ND	3.8		µg/Kg	0.76	3/9/02
Trichlorofluoromethane	ND	3.8		µg/Kg	0.76	3/9/02
Vinyl chloride	ND	3.8		µg/Kg	0.76	3/9/02
VOLATILE ORGANIC COMPOUNDS BY GC/MS			**EPA 8260B**			
RunID: **MS3_020308B** BatchID: **R02VOCS053**				PrepDate: **3/8/02**		Analyst: **JPC**
1,2-Dibromoethane	ND	3.8		µg/Kg	0.76	3/9/02
1,2-Dichloroethane	ND	3.8		µg/Kg	0.76	3/9/02
Di-isopropyl ether	ND	3.8		µg/Kg	0.76	3/9/02
Ethyl Tert-butyl ether	ND	3.8		µg/Kg	0.76	3/9/02
Tert-amyl methyl ether	ND	3.8		µg/Kg	0.76	3/9/02
Tert-Butanol	ND	76		µg/Kg	0.76	3/9/02

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: RA

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Print Date: *3/12/02*

CLIENT: Ninyo & Moore
Client Sample ID: NM6A-10
Lab Order: 055717
Project: Walker/USTS, 203571003
Collection Date: 3/6/02 7:32:00 AM
Lab ID: 055717-013A
Matrix: Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
HYDROCARBON CHAIN IDENTIFICATION				**EPA 8015B**		
RunID: **GC7_020307A** BatchID: **7803**				PrepDate: **3/7/02**		Analyst: IG
T/R Hydrocarbons: C10-C12	ND	10		mg/Kg	1.0	3/7/02
T/R Hydrocarbons: C13-C15	ND	10		mg/Kg	1.0	3/7/02
T/R Hydrocarbons: C16-C22	ND	10		mg/Kg	1.0	3/7/02
T/R Hydrocarbons: C23-C32	14	10		mg/Kg	1.0	3/7/02
T/R Hydrocarbons: >C32	22	10		mg/Kg	1.0	3/7/02

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: PM

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Print Date: *3/12/02*

CLIENT: Ninyo & Moore **Client Sample ID:** NM6A-10
Lab Order: 055717
Project: Walker/USTS, 203571003 **Collection Date:** 3/6/02 7:32:00 AM
Lab ID: 055717-013B **Matrix:** Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS			**EPA 8260B**			
RunID: **MS3_020308B** BatchID: **R02VOCS053**			PrepDate: **3/8/02**			Analyst: JPC
1,1,1,2-Tetrachloroethane	ND	4.7		µg/Kg	0.93	3/9/02
1,1,1-Trichloroethane	ND	4.7		µg/Kg	0.93	3/9/02
1,1,2,2-Tetrachloroethane	ND	4.7		µg/Kg	0.93	3/9/02
1,1,2-Trichloroethane	ND	4.7		µg/Kg	0.93	3/9/02
1,1-Dichloroethane	ND	4.7		µg/Kg	0.93	3/9/02
1,1-Dichloroethene	ND	4.7		µg/Kg	0.93	3/9/02
1,1-Dichloropropene	ND	4.7		µg/Kg	0.93	3/9/02
1,2,3-Trichlorobenzene	ND	4.7		µg/Kg	0.93	3/9/02
1,2,3-Trichloropropane	ND	4.7		µg/Kg	0.93	3/9/02
1,2,4-Trichlorobenzene	ND	4.7		µg/Kg	0.93	3/9/02
1,2,4-Trimethylbenzene	ND	4.7		µg/Kg	0.93	3/9/02
1,2-Dibromo-3-chloropropane	ND	9.3		µg/Kg	0.93	3/9/02
1,2-Dibromoethane	ND	4.7		µg/Kg	0.93	3/9/02
1,2-Dichlorobenzene	ND	4.7		µg/Kg	0.93	3/9/02
1,2-Dichloroethane	ND	4.7		µg/Kg	0.93	3/9/02
1,2-Dichloropropane	ND	4.7		µg/Kg	0.93	3/9/02
1,3,5-Trimethylbenzene	ND	4.7		µg/Kg	0.93	3/9/02
1,3-Dichlorobenzene	ND	4.7		µg/Kg	0.93	3/9/02
1,3-Dichloropropane	ND	4.7		µg/Kg	0.93	3/9/02
1,4-Dichlorobenzene	ND	4.7		µg/Kg	0.93	3/9/02
2,2-Dichloropropane	ND	4.7		µg/Kg	0.93	3/9/02
2-Chlorotoluene	ND	4.7		µg/Kg	0.93	3/9/02
4-Chlorotoluene	ND	4.7		µg/Kg	0.93	3/9/02
4-Isopropyltoluene	ND	4.7		µg/Kg	0.93	3/9/02
Benzene	ND	4.7		µg/Kg	0.93	3/9/02
Bromobenzene	ND	4.7		µg/Kg	0.93	3/9/02
Bromodichloromethane	ND	4.7		µg/Kg	0.93	3/9/02
Bromoform	ND	4.7		µg/Kg	0.93	3/9/02
Bromomethane	ND	4.7		µg/Kg	0.93	3/9/02
Carbon tetrachloride	ND	4.7		µg/Kg	0.93	3/9/02
Chlorobenzene	ND	4.7		µg/Kg	0.93	3/9/02
Chloroethane	ND	4.7		µg/Kg	0.93	3/9/02
Chloroform	ND	4.7		µg/Kg	0.93	3/9/02
Chloromethane	ND	4.7		µg/Kg	0.93	3/9/02
cis-1,2-Dichloroethene	ND	4.7		µg/Kg	0.93	3/9/02
Dibromochloromethane	ND	4.7		µg/Kg	0.93	3/9/02
Dibromomethane	ND	4.7		µg/Kg	0.93	3/9/02
Dichlorodifluoromethane	ND	4.7		µg/Kg	0.93	3/9/02

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: RA

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Print Date: *3/12/02*

CLIENT: Ninyo & Moore
Client Sample ID: NM6A-10
Lab Order: 055717
Project: Walker/USTS, 203571003
Collection Date: 3/6/02 7:32:00 AM
Lab ID: 055717-013B
Matrix: Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				**EPA 8260B**		
RunID: **MS3_020308B** BatchID: **R02VOCS053**				PrepDate: **3/8/02**		Analyst: **JPC**
Ethylbenzene	ND	4.7		µg/Kg	0.93	3/9/02
Hexachlorobutadiene	ND	4.7		µg/Kg	0.93	3/9/02
Isopropylbenzene	ND	4.7		µg/Kg	0.93	3/9/02
m,p-Xylene	ND	4.7		µg/Kg	0.93	3/9/02
Methylene chloride	ND	4.7		µg/Kg	0.93	3/9/02
MTBE	ND	4.7		µg/Kg	0.93	3/9/02
n-Butylbenzene	ND	4.7		µg/Kg	0.93	3/9/02
n-Propylbenzene	ND	4.7		µg/Kg	0.93	3/9/02
Naphthalene	ND	4.7		µg/Kg	0.93	3/9/02
o-Xylene	ND	4.7		µg/Kg	0.93	3/9/02
sec-Butylbenzene	ND	4.7		µg/Kg	0.93	3/9/02
Styrene	ND	4.7		µg/Kg	0.93	3/9/02
tert-Butylbenzene	ND	4.7		µg/Kg	0.93	3/9/02
Tetrachloroethene	ND	4.7		µg/Kg	0.93	3/9/02
Toluene	ND	4.7		µg/Kg	0.93	3/9/02
trans-1,2-Dichloroethene	ND	4.7		µg/Kg	0.93	3/9/02
Trichloroethene	ND	4.7		µg/Kg	0.93	3/9/02
Trichlorofluoromethane	ND	4.7		µg/Kg	0.93	3/9/02
Vinyl chloride	ND	4.7		µg/Kg	0.93	3/9/02
VOLATILE ORGANIC COMPOUNDS BY GC/MS				**EPA 8260B**		
RunID: **MS3_020308B** BatchID: **R02VOCS053**				PrepDate: **3/8/02**		Analyst: **JPC**
1,2-Dibromoethane	ND	4.7		µg/Kg	0.93	3/9/02
1,2-Dichloroethane	ND	4.7		µg/Kg	0.93	3/9/02
Di-isopropyl ether	ND	4.7		µg/Kg	0.93	3/9/02
Ethyl Tert-butyl ether	ND	4.7		µg/Kg	0.93	3/9/02
Tert-amyl methyl ether	ND	4.7		µg/Kg	0.93	3/9/02
Tert-Butanol	ND	93		µg/Kg	0.93	3/9/02

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored, Highly Reactive

Initials: RA

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Print Date: *3/12/02*

CLIENT: Ninyo & Moore
Client Sample ID: NM6A-20
Lab Order: 055717
Project: Walker/USTS, 203571003
Collection Date: 3/6/02 7:45:00 AM
Lab ID: 055717-015A
Matrix: Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
HYDROCARBON CHAIN IDENTIFICATION			**EPA 8015B**			
RunID: **GC7_020307A** BatchID: **7803**				PrepDate: **3/7/02**		Analyst: **IG**
T/R Hydrocarbons: C10-C12	ND	10		mg/Kg	1.0	3/7/02
T/R Hydrocarbons: C13-C15	ND	10		mg/Kg	1.0	3/7/02
T/R Hydrocarbons: C16-C22	ND	10		mg/Kg	1.0	3/7/02
T/R Hydrocarbons: C23-C32	17	10		mg/Kg	1.0	3/7/02
T/R Hydrocarbons: >C32	19	10		mg/Kg	1.0	3/7/02

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: RA

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Print Date: *3/12/02*

CLIENT: Ninyo & Moore
Client Sample ID: NM6A-20
Lab Order: 055717
Project: Walker/USTS, 203571003
Collection Date: 3/6/02 7:45:00 AM
Lab ID: 055717-015B
Matrix: Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS			**EPA 8260B**			
RunID: **MS3_020308B** BatchID: **R02VOCS053**				PrepDate: **3/8/02**		Analyst: **JPC**
1,1,1,2-Tetrachloroethane	ND	5.2		µg/Kg	1.0	3/9/02
1,1,1-Trichloroethane	ND	5.2		µg/Kg	1.0	3/9/02
1,1,2,2-Tetrachloroethane	ND	5.2		µg/Kg	1.0	3/9/02
1,1,2-Trichloroethane	ND	5.2		µg/Kg	1.0	3/9/02
1,1-Dichloroethane	ND	5.2		µg/Kg	1.0	3/9/02
1,1-Dichloroethene	ND	5.2		µg/Kg	1.0	3/9/02
1,1-Dichloropropene	ND	5.2		µg/Kg	1.0	3/9/02
1,2,3-Trichlorobenzene	ND	5.2		µg/Kg	1.0	3/9/02
1,2,3-Trichloropropane	ND	5.2		µg/Kg	1.0	3/9/02
1,2,4-Trichlorobenzene	ND	5.2		µg/Kg	1.0	3/9/02
1,2,4-Trimethylbenzene	ND	5.2		µg/Kg	1.0	3/9/02
1,2-Dibromo-3-chloropropane	ND	10		µg/Kg	1.0	3/9/02
1,2-Dibromoethane	ND	5.2		µg/Kg	1.0	3/9/02
1,2-Dichlorobenzene	ND	5.2		µg/Kg	1.0	3/9/02
1,2-Dichloroethane	ND	5.2		µg/Kg	1.0	3/9/02
1,2-Dichloropropane	ND	5.2		µg/Kg	1.0	3/9/02
1,3,5-Trimethylbenzene	ND	5.2		µg/Kg	1.0	3/9/02
1,3-Dichlorobenzene	ND	5.2		µg/Kg	1.0	3/9/02
1,3-Dichloropropane	ND	5.2		µg/Kg	1.0	3/9/02
1,4-Dichlorobenzene	ND	5.2		µg/Kg	1.0	3/9/02
2,2-Dichloropropane	ND	5.2		µg/Kg	1.0	3/9/02
2-Chlorotoluene	ND	5.2		µg/Kg	1.0	3/9/02
4-Chlorotoluene	ND	5.2		µg/Kg	1.0	3/9/02
4-Isopropyltoluene	ND	5.2		µg/Kg	1.0	3/9/02
Benzene	ND	5.2		µg/Kg	1.0	3/9/02
Bromobenzene	ND	5.2		µg/Kg	1.0	3/9/02
Bromodichloromethane	ND	5.2		µg/Kg	1.0	3/9/02
Bromoform	ND	5.2		µg/Kg	1.0	3/9/02
Bromomethane	ND	5.2		µg/Kg	1.0	3/9/02
Carbon tetrachloride	ND	5.2		µg/Kg	1.0	3/9/02
Chlorobenzene	ND	5.2		µg/Kg	1.0	3/9/02
Chloroethane	ND	5.2		µg/Kg	1.0	3/9/02
Chloroform	ND	5.2		µg/Kg	1.0	3/9/02
Chloromethane	ND	5.2		µg/Kg	1.0	3/9/02
cis-1,2-Dichloroethene	ND	5.2		µg/Kg	1.0	3/9/02
Dibromochloromethane	ND	5.2		µg/Kg	1.0	3/9/02
Dibromomethane	ND	5.2		µg/Kg	1.0	3/9/02
Dichlorodifluoromethane	ND	5.2		µg/Kg	1.0	3/9/02

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored, Highly Reactive

Initials: RA

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Print Date: *3/12/02*

CLIENT: Ninyo & Moore
Client Sample ID: NM6A-20
Lab Order: 055717
Project: Walker/USTS, 203571003
Collection Date: 3/6/02 7:45:00 AM
Lab ID: 055717-015B
Matrix: Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS			**EPA 8260B**			
RunID: **MS3_020308B** BatchID: **R02VOCS053**				PrepDate: **3/8/02**		Analyst: **JPC**
Ethylbenzene	ND	5.2		µg/Kg	1.0	3/9/02
Hexachlorobutadiene	ND	5.2		µg/Kg	1.0	3/9/02
Isopropylbenzene	ND	5.2		µg/Kg	1.0	3/9/02
m,p-Xylene	ND	5.2		µg/Kg	1.0	3/9/02
Methylene chloride	ND	5.2		µg/Kg	1.0	3/9/02
MTBE	ND	5.2		µg/Kg	1.0	3/9/02
n-Butylbenzene	ND	5.2		µg/Kg	1.0	3/9/02
n-Propylbenzene	ND	5.2		µg/Kg	1.0	3/9/02
Naphthalene	ND	5.2		µg/Kg	1.0	3/9/02
o-Xylene	ND	5.2		µg/Kg	1.0	3/9/02
sec-Butylbenzene	ND	5.2		µg/Kg	1.0	3/9/02
Styrene	ND	5.2		µg/Kg	1.0	3/9/02
tert-Butylbenzene	ND	5.2		µg/Kg	1.0	3/9/02
Tetrachloroethene	ND	5.2		µg/Kg	1.0	3/9/02
Toluene	ND	5.2		µg/Kg	1.0	3/9/02
trans-1,2-Dichloroethene	ND	5.2		µg/Kg	1.0	3/9/02
Trichloroethene	ND	5.2		µg/Kg	1.0	3/9/02
Trichlorofluoromethane	ND	5.2		µg/Kg	1.0	3/9/02
Vinyl chloride	ND	5.2		µg/Kg	1.0	3/9/02
VOLATILE ORGANIC COMPOUNDS BY GC/MS			**EPA 8260B**			
RunID: **MS3_020308B** BatchID: **R02VOCS053**				PrepDate: **3/8/02**		Analyst: **JPC**
1,2-Dibromoethane	ND	5.2		µg/Kg	1.0	3/9/02
1,2-Dichloroethane	ND	5.2		µg/Kg	1.0	3/9/02
Di-isopropyl ether	ND	5.2		µg/Kg	1.0	3/9/02
Ethyl Tert-butyl ether	ND	5.2		µg/Kg	1.0	3/9/02
Tert-amyl methyl ether	ND	5.2		µg/Kg	1.0	3/9/02
Tert-Butanol	ND	100		µg/Kg	1.0	3/9/02

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored, Highly Reactive

Initials: RA

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Print Date: *3/12/02*

CLIENT: Ninyo & Moore
Client Sample ID: NM6A-30
Lab Order: 055717
Project: Walker/USTS, 203571003
Collection Date: 3/6/02 8:50:00 AM
Lab ID: 055717-017A
Matrix: Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
HYDROCARBON CHAIN IDENTIFICATION			**EPA 8015B**			
RunID: **GC7_020307A** BatchID: **7803**				PrepDate: **3/7/02**		Analyst: IG
T/R Hydrocarbons: C10-C12	ND	10		mg/Kg	1.0	3/7/02
T/R Hydrocarbons: C13-C15	ND	10		mg/Kg	1.0	3/7/02
T/R Hydrocarbons: C16-C22	ND	10		mg/Kg	1.0	3/7/02
T/R Hydrocarbons: C23-C32	ND	10		mg/Kg	1.0	3/7/02
T/R Hydrocarbons: >C32	ND	10		mg/Kg	1.0	3/7/02

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: RA

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Print Date: *3/12/02*

CLIENT: Ninyo & Moore **Client Sample ID:** NM6A-30
Lab Order: 055717
Project: Walker/USTS, 203571003 **Collection Date:** 3/6/02 8:50:00 AM
Lab ID: 055717-017B **Matrix:** Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS			**EPA 8260B**			
RunID: **MS3_020308B** BatchID: **R02VOCS053**				PrepDate: **3/8/02**		Analyst: **JPC**
1,1,1,2-Tetrachloroethane	ND	4.2		µg/Kg	0.83	3/9/02
1,1,1-Trichloroethane	ND	4.2		µg/Kg	0.83	3/9/02
1,1,2,2-Tetrachloroethane	ND	4.2		µg/Kg	0.83	3/9/02
1,1,2-Trichloroethane	ND	4.2		µg/Kg	0.83	3/9/02
1,1-Dichloroethane	ND	4.2		µg/Kg	0.83	3/9/02
1,1-Dichloroethene	ND	4.2		µg/Kg	0.83	3/9/02
1,1-Dichloropropene	ND	4.2		µg/Kg	0.83	3/9/02
1,2,3-Trichlorobenzene	ND	4.2		µg/Kg	0.83	3/9/02
1,2,3-Trichloropropane	ND	4.2		µg/Kg	0.83	3/9/02
1,2,4-Trichlorobenzene	ND	4.2		µg/Kg	0.83	3/9/02
1,2,4-Trimethylbenzene	ND	4.2		µg/Kg	0.83	3/9/02
1,2-Dibromo-3-chloropropane	ND	8.3		µg/Kg	0.83	3/9/02
1,2-Dibromoethane	ND	4.2		µg/Kg	0.83	3/9/02
1,2-Dichlorobenzene	ND	4.2		µg/Kg	0.83	3/9/02
1,2-Dichloroethane	ND	4.2		µg/Kg	0.83	3/9/02
1,2-Dichloropropane	ND	4.2		µg/Kg	0.83	3/9/02
1,3,5-Trimethylbenzene	ND	4.2		µg/Kg	0.83	3/9/02
1,3-Dichlorobenzene	ND	4.2		µg/Kg	0.83	3/9/02
1,3-Dichloropropane	ND	4.2		µg/Kg	0.83	3/9/02
1,4-Dichlorobenzene	ND	4.2		µg/Kg	0.83	3/9/02
2,2-Dichloropropane	ND	4.2		µg/Kg	0.83	3/9/02
2-Chlorotoluene	ND	4.2		µg/Kg	0.83	3/9/02
4-Chlorotoluene	ND	4.2		µg/Kg	0.83	3/9/02
4-Isopropyltoluene	ND	4.2		µg/Kg	0.83	3/9/02
Benzene	ND	4.2		µg/Kg	0.83	3/9/02
Bromobenzene	ND	4.2		µg/Kg	0.83	3/9/02
Bromodichloromethane	ND	4.2		µg/Kg	0.83	3/9/02
Bromoform	ND	4.2		µg/Kg	0.83	3/9/02
Bromomethane	ND	4.2		µg/Kg	0.83	3/9/02
Carbon tetrachloride	ND	4.2		µg/Kg	0.83	3/9/02
Chlorobenzene	ND	4.2		µg/Kg	0.83	3/9/02
Chloroethane	ND	4.2		µg/Kg	0.83	3/9/02
Chloroform	ND	4.2		µg/Kg	0.83	3/9/02
Chloromethane	ND	4.2		µg/Kg	0.83	3/9/02
cis-1,2-Dichloroethene	ND	4.2		µg/Kg	0.83	3/9/02
Dibromochloromethane	ND	4.2		µg/Kg	0.83	3/9/02
Dibromomethane	ND	4.2		µg/Kg	0.83	3/9/02
Dichlorodifluoromethane	ND	4.2		µg/Kg	0.83	3/9/02

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: RA

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Print Date: *3/12/02*

CLIENT: Ninyo & Moore **Client Sample ID:** NM6A-30
Lab Order: 055717
Project: Walker/USTS, 203571003 **Collection Date:** 3/6/02 8:50:00 AM
Lab ID: 055717-017B **Matrix:** Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS			**EPA 8260B**			
RunID: **MS3_020308B** BatchID: **R02VOCS053**				PrepDate: **3/8/02**		Analyst: **JPC**
Ethylbenzene	ND	4.2		µg/Kg	0.83	3/9/02
Hexachlorobutadiene	ND	4.2		µg/Kg	0.83	3/9/02
Isopropylbenzene	ND	4.2		µg/Kg	0.83	3/9/02
m,p-Xylene	ND	4.2		µg/Kg	0.83	3/9/02
Methylene chloride	ND	4.2		µg/Kg	0.83	3/9/02
MTBE	ND	4.2		µg/Kg	0.83	3/9/02
n-Butylbenzene	ND	4.2		µg/Kg	0.83	3/9/02
n-Propylbenzene	ND	4.2		µg/Kg	0.83	3/9/02
Naphthalene	ND	4.2		µg/Kg	0.83	3/9/02
o-Xylene	ND	4.2		µg/Kg	0.83	3/9/02
sec-Butylbenzene	ND	4.2		µg/Kg	0.83	3/9/02
Styrene	ND	4.2		µg/Kg	0.83	3/9/02
tert-Butylbenzene	ND	4.2		µg/Kg	0.83	3/9/02
Tetrachloroethene	ND	4.2		µg/Kg	0.83	3/9/02
Toluene	ND	4.2		µg/Kg	0.83	3/9/02
trans-1,2-Dichloroethene	ND	4.2		µg/Kg	0.83	3/9/02
Trichloroethene	ND	4.2		µg/Kg	0.83	3/9/02
Trichlorofluoromethane	ND	4.2		µg/Kg	0.83	3/9/02
Vinyl chloride	ND	4.2		µg/Kg	0.83	3/9/02
VOLATILE ORGANIC COMPOUNDS BY GC/MS			**EPA 8260B**			
RunID: **MS3_020308B** BatchID: **R02VOCS053**				PrepDate: **3/8/02**		Analyst: **JPC**
1,2-Dibromoethane	ND	4.2		µg/Kg	0.83	3/9/02
1,2-Dichloroethane	ND	4.2		µg/Kg	0.83	3/9/02
Di-isopropyl ether	ND	4.2		µg/Kg	0.83	3/9/02
Ethyl Tert-butyl ether	ND	4.2		µg/Kg	0.83	3/9/02
Tert-amyl methyl ether	ND	4.2		µg/Kg	0.83	3/9/02
Tert-Butanol	ND	83		µg/Kg	0.83	3/9/02

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored, Highly Reactive

Initials: RA

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Print Date: *3/12/02*

CLIENT: Ninyo & Moore
Client Sample ID: NM6A-40
Lab Order: 055717
Project: Walker/USTS, 203571003
Collection Date: 3/6/02 9:35:00 AM
Lab ID: 055717-019A
Matrix: Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
HYDROCARBON CHAIN IDENTIFICATION				**EPA 8015B**		
RunID: **GC7_020307A** BatchID: **7803**				PrepDate: **3/7/02**		Analyst: **IG**
T/R Hydrocarbons: C10-C12	ND	10		mg/Kg	1.0	3/7/02
T/R Hydrocarbons: C13-C15	ND	10		mg/Kg	1.0	3/7/02
T/R Hydrocarbons: C16-C22	ND	10		mg/Kg	1.0	3/7/02
T/R Hydrocarbons: C23-C32	14	10		mg/Kg	1.0	3/7/02
T/R Hydrocarbons: >C32	15	10		mg/Kg	1.0	3/7/02

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: RA

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Print Date: *3/12/02*

CLIENT: Ninyo & Moore
Client Sample ID: NM6A-40
Lab Order: 055717
Project: Walker/USTS, 203571003
Collection Date: 3/6/02 9:35:00 AM
Lab ID: 055717-019B
Matrix: Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				**EPA 8260B**		
RunID: **MS3_020308B** BatchID: **R02VOCS053**				PrepDate: **3/8/02**		Analyst: **JPC**
1,1,1,2-Tetrachloroethane	ND	4.6		µg/Kg	0.92	3/9/02
1,1,1-Trichloroethane	ND	4.6		µg/Kg	0.92	3/9/02
1,1,2,2-Tetrachloroethane	ND	4.6		µg/Kg	0.92	3/9/02
1,1,2-Trichloroethane	ND	4.6		µg/Kg	0.92	3/9/02
1,1-Dichloroethane	ND	4.6		µg/Kg	0.92	3/9/02
1,1-Dichloroethene	ND	4.6		µg/Kg	0.92	3/9/02
1,1-Dichloropropene	ND	4.6		µg/Kg	0.92	3/9/02
1,2,3-Trichlorobenzene	ND	4.6		µg/Kg	0.92	3/9/02
1,2,3-Trichloropropane	ND	4.6		µg/Kg	0.92	3/9/02
1,2,4-Trichlorobenzene	ND	4.6		µg/Kg	0.92	3/9/02
1,2,4-Trimethylbenzene	ND	4.6		µg/Kg	0.92	3/9/02
1,2-Dibromo-3-chloropropane	ND	9.2		µg/Kg	0.92	3/9/02
1,2-Dibromoethane	ND	4.6		µg/Kg	0.92	3/9/02
1,2-Dichlorobenzene	ND	4.6		µg/Kg	0.92	3/9/02
1,2-Dichloroethane	ND	4.6		µg/Kg	0.92	3/9/02
1,2-Dichloropropane	ND	4.6		µg/Kg	0.92	3/9/02
1,3,5-Trimethylbenzene	ND	4.6		µg/Kg	0.92	3/9/02
1,3-Dichlorobenzene	ND	4.6		µg/Kg	0.92	3/9/02
1,3-Dichloropropane	ND	4.6		µg/Kg	0.92	3/9/02
1,4-Dichlorobenzene	ND	4.6		µg/Kg	0.92	3/9/02
2,2-Dichloropropane	ND	4.6		µg/Kg	0.92	3/9/02
2-Chlorotoluene	ND	4.6		µg/Kg	0.92	3/9/02
4-Chlorotoluene	ND	4.6		µg/Kg	0.92	3/9/02
4-Isopropyltoluene	ND	4.6		µg/Kg	0.92	3/9/02
Benzene	ND	4.6		µg/Kg	0.92	3/9/02
Bromobenzene	ND	4.6		µg/Kg	0.92	3/9/02
Bromodichloromethane	ND	4.6		µg/Kg	0.92	3/9/02
Bromoform	ND	4.6		µg/Kg	0.92	3/9/02
Bromomethane	ND	4.6		µg/Kg	0.92	3/9/02
Carbon tetrachloride	ND	4.6		µg/Kg	0.92	3/9/02
Chlorobenzene	ND	4.6		µg/Kg	0.92	3/9/02
Chloroethane	ND	4.6		µg/Kg	0.92	3/9/02
Chloroform	ND	4.6		µg/Kg	0.92	3/9/02
Chloromethane	ND	4.6		µg/Kg	0.92	3/9/02
cis-1,2-Dichloroethene	ND	4.6		µg/Kg	0.92	3/9/02
Dibromochloromethane	ND	4.6		µg/Kg	0.92	3/9/02
Dibromomethane	ND	4.6		µg/Kg	0.92	3/9/02
Dichlorodifluoromethane	ND	4.6		µg/Kg	0.92	3/9/02

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: RA

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Print Date: *3/12/02*

CLIENT: Ninyo & Moore
Client Sample ID: NM6A-40
Lab Order: 055717
Project: Walker/USTS, 203571003
Collection Date: 3/6/02 9:35:00 AM
Lab ID: 055717-019B
Matrix: Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS			**EPA 8260B**			
RunID: **MS3_020308B** BatchID: **R02VOCS053**				PrepDate: **3/8/02**		Analyst: JPC
Ethylbenzene	ND	4.6		µg/Kg	0.92	3/9/02
Hexachlorobutadiene	ND	4.6		µg/Kg	0.92	3/9/02
Isopropylbenzene	ND	4.6		µg/Kg	0.92	3/9/02
m,p-Xylene	ND	4.6		µg/Kg	0.92	3/9/02
Methylene chloride	ND	4.6		µg/Kg	0.92	3/9/02
MTBE	ND	4.6		µg/Kg	0.92	3/9/02
n-Butylbenzene	ND	4.6		µg/Kg	0.92	3/9/02
n-Propylbenzene	ND	4.6		µg/Kg	0.92	3/9/02
Naphthalene	ND	4.6		µg/Kg	0.92	3/9/02
o-Xylene	ND	4.6		µg/Kg	0.92	3/9/02
sec-Butylbenzene	ND	4.6		µg/Kg	0.92	3/9/02
Styrene	ND	4.6		µg/Kg	0.92	3/9/02
tert-Butylbenzene	ND	4.6		µg/Kg	0.92	3/9/02
Tetrachloroethene	ND	4.6		µg/Kg	0.92	3/9/02
Toluene	ND	4.6		µg/Kg	0.92	3/9/02
trans-1,2-Dichloroethene	ND	4.6		µg/Kg	0.92	3/9/02
Trichloroethene	ND	4.6		µg/Kg	0.92	3/9/02
Trichlorofluoromethane	ND	4.6		µg/Kg	0.92	3/9/02
Vinyl chloride	ND	4.6		µg/Kg	0.92	3/9/02
VOLATILE ORGANIC COMPOUNDS BY GC/MS			**EPA 8260B**			
RunID: **MS3_020308B** BatchID: **R02VOCS053**				PrepDate: **3/8/02**		Analyst: JPC
1,2-Dibromoethane	ND	4.6		µg/Kg	0.92	3/9/02
1,2-Dichloroethane	ND	4.6		µg/Kg	0.92	3/9/02
Di-isopropyl ether	ND	4.6		µg/Kg	0.92	3/9/02
Ethyl Tert-butyl ether	ND	4.6		µg/Kg	0.92	3/9/02
Tert-amyl methyl ether	ND	4.6		µg/Kg	0.92	3/9/02
Tert-Butanol	ND	92		µg/Kg	0.92	3/9/02

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: RA

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Print Date: *3/12/02*

CLIENT: Ninyo & Moore **Client Sample ID:** NM6B-5
Lab Order: 055717
Project: Walker/USTS, 203571003 **Collection Date:** 3/6/02 12:00:00 PM
Lab ID: 055717-020A **Matrix:** Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
HYDROCARBON CHAIN IDENTIFICATION			**EPA 8015B**			
RunID: **GC7_020307A** BatchID: **7803**				PrepDate: **3/7/02**		Analyst: IG
T/R Hydrocarbons: C10-C12	ND	10		mg/Kg	1.0	3/7/02
T/R Hydrocarbons: C13-C15	ND	10		mg/Kg	1.0	3/7/02
T/R Hydrocarbons: C16-C22	ND	10		mg/Kg	1.0	3/7/02
T/R Hydrocarbons: C23-C32	19	10		mg/Kg	1.0	3/7/02
T/R Hydrocarbons: >C32	28	10		mg/Kg	1.0	3/7/02

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: RA

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Print Date: *3/12/02*

CLIENT: Ninyo & Moore
Client Sample ID: NM6B-5
Lab Order: 055717
Project: Walker/USTS, 203571003
Collection Date: 3/6/02 12:00:00 PM
Lab ID: 055717-020B
Matrix: Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS			**EPA 8260B**			
RunID: **MS3_020309A** BatchID: **R02VOCS054**				PrepDate: **3/6/02**		Analyst: **JPC**
1,1,1,2-Tetrachloroethane	ND	3.9		µg/Kg	0.77	3/9/02
1,1,1-Trichloroethane	ND	3.9		µg/Kg	0.77	3/9/02
1,1,2,2-Tetrachloroethane	ND	3.9		µg/Kg	0.77	3/9/02
1,1,2-Trichloroethane	ND	3.9		µg/Kg	0.77	3/9/02
1,1-Dichloroethane	ND	3.9		µg/Kg	0.77	3/9/02
1,1-Dichloroethene	ND	3.9		µg/Kg	0.77	3/9/02
1,1-Dichloropropene	ND	3.9		µg/Kg	0.77	3/9/02
1,2,3-Trichlorobenzene	ND	3.9		µg/Kg	0.77	3/9/02
1,2,3-Trichloropropane	ND	3.9		µg/Kg	0.77	3/9/02
1,2,4-Trichlorobenzene	ND	3.9		µg/Kg	0.77	3/9/02
1,2,4-Trimethylbenzene	ND	3.9		µg/Kg	0.77	3/9/02
1,2-Dibromo-3-chloropropane	ND	7.7		µg/Kg	0.77	3/9/02
1,2-Dibromoethane	ND	3.9		µg/Kg	0.77	3/9/02
1,2-Dichlorobenzene	ND	3.9		µg/Kg	0.77	3/9/02
1,2-Dichloroethane	ND	3.9		µg/Kg	0.77	3/9/02
1,2-Dichloropropane	ND	3.9		µg/Kg	0.77	3/9/02
1,3,5-Trimethylbenzene	ND	3.9		µg/Kg	0.77	3/9/02
1,3-Dichlorobenzene	ND	3.9		µg/Kg	0.77	3/9/02
1,3-Dichloropropane	ND	3.9		µg/Kg	0.77	3/9/02
1,4-Dichlorobenzene	ND	3.9		µg/Kg	0.77	3/9/02
2,2-Dichloropropane	ND	3.9		µg/Kg	0.77	3/9/02
2-Chlorotoluene	ND	3.9		µg/Kg	0.77	3/9/02
4-Chlorotoluene	ND	3.9		µg/Kg	0.77	3/9/02
4-Isopropyltoluene	ND	3.9		µg/Kg	0.77	3/9/02
Benzene	ND	3.9		µg/Kg	0.77	3/9/02
Bromobenzene	ND	3.9		µg/Kg	0.77	3/9/02
Bromodichloromethane	ND	3.9		µg/Kg	0.77	3/9/02
Bromoform	ND	3.9		µg/Kg	0.77	3/9/02
Bromomethane	ND	3.9		µg/Kg	0.77	3/9/02
Carbon tetrachloride	ND	3.9		µg/Kg	0.77	3/9/02
Chlorobenzene	ND	3.9		µg/Kg	0.77	3/9/02
Chloroethane	ND	3.9		µg/Kg	0.77	3/9/02
Chloroform	ND	3.9		µg/Kg	0.77	3/9/02
Chloromethane	ND	3.9		µg/Kg	0.77	3/9/02
cis-1,2-Dichloroethene	ND	3.9		µg/Kg	0.77	3/9/02
Dibromochloromethane	ND	3.9		µg/Kg	0.77	3/9/02
Dibromomethane	ND	3.9		µg/Kg	0.77	3/9/02
Dichlorodifluoromethane	ND	3.9		µg/Kg	0.77	3/9/02

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: RA

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Print Date: *3/12/02*

CLIENT: Ninyo & Moore **Client Sample ID:** NM6B-5
Lab Order: 055717
Project: Walker/USTS, 203571003 **Collection Date:** 3/6/02 12:00:00 PM
Lab ID: 055717-020B **Matrix:** Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS			**EPA 8260B**			
RunID: **MS3_020309A** BatchID: **R02VOCS054**			PrepDate: **3/6/02**			Analyst: JPC
Ethylbenzene	ND	3.9		µg/Kg	0.77	3/9/02
Hexachlorobutadiene	ND	3.9		µg/Kg	0.77	3/9/02
Isopropylbenzene	ND	3.9		µg/Kg	0.77	3/9/02
m,p-Xylene	ND	3.9		µg/Kg	0.77	3/9/02
Methylene chloride	ND	3.9		µg/Kg	0.77	3/9/02
MTBE	ND	3.9		µg/Kg	0.77	3/9/02
n-Butylbenzene	ND	3.9		µg/Kg	0.77	3/9/02
n-Propylbenzene	ND	3.9		µg/Kg	0.77	3/9/02
Naphthalene	ND	3.9		µg/Kg	0.77	3/9/02
o-Xylene	ND	3.9		µg/Kg	0.77	3/9/02
sec-Butylbenzene	ND	3.9		µg/Kg	0.77	3/9/02
Styrene	ND	3.9		µg/Kg	0.77	3/9/02
tert-Butylbenzene	ND	3.9		µg/Kg	0.77	3/9/02
Tetrachloroethene	ND	3.9		µg/Kg	0.77	3/9/02
Toluene	ND	3.9		µg/Kg	0.77	3/9/02
trans-1,2-Dichloroethene	ND	3.9		µg/Kg	0.77	3/9/02
Trichloroethene	ND	3.9		µg/Kg	0.77	3/9/02
Trichlorofluoromethane	ND	3.9		µg/Kg	0.77	3/9/02
Vinyl chloride	ND	3.9		µg/Kg	0.77	3/9/02
VOLATILE ORGANIC COMPOUNDS BY GC/MS			**EPA 8260B**			
RunID: **MS3_020309A** BatchID: **R02VOCS054**			PrepDate: **3/6/02**			Analyst: JPC
1,2-Dibromoethane	ND	3.9		µg/Kg	0.77	3/9/02
1,2-Dichloroethane	ND	3.9		µg/Kg	0.77	3/9/02
Di-isopropyl ether	ND	3.9		µg/Kg	0.77	3/9/02
Ethyl Tert-butyl ether	ND	3.9		µg/Kg	0.77	3/9/02
Tert-amyl methyl ether	ND	3.9		µg/Kg	0.77	3/9/02
Tert-Butanol	ND	77		µg/Kg	0.77	3/9/02

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: RA

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Print Date: *3/12/02*

CLIENT: Ninyo & Moore
Client Sample ID: NM6B-10
Lab Order: 055717
Project: Walker/USTS, 203571003
Collection Date: 3/6/02 12:05:00 PM
Lab ID: 055717-021A
Matrix: Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
HYDROCARBON CHAIN IDENTIFICATION				**EPA 8015B**		
RunID: **GC7_020307A** BatchID: **7803**				PrepDate: **3/7/02**		Analyst: IG
T/R Hydrocarbons: C10-C12	ND	10		mg/Kg	1.0	3/7/02
T/R Hydrocarbons: C13-C15	ND	10		mg/Kg	1.0	3/7/02
T/R Hydrocarbons: C16-C22	ND	10		mg/Kg	1.0	3/7/02
T/R Hydrocarbons: C23-C32	15	10		mg/Kg	1.0	3/7/02
T/R Hydrocarbons: >C32	13	10		mg/Kg	1.0	3/7/02

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: RA

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Print Date: *3/12/02*

CLIENT: Ninyo & Moore
Client Sample ID: NM6B-10
Lab Order: 055717
Project: Walker/USTS, 203571003
Collection Date: 3/6/02 12:05:00 PM
Lab ID: 055717-021B
Matrix: Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS			**EPA 8260B**			
RunID: MS3_020309A BatchID: R02VOCS054				PrepDate: 3/6/02		Analyst: JPC
1,1,1,2-Tetrachloroethane	ND	4.9		µg/Kg	0.99	3/9/02
1,1,1-Trichloroethane	ND	4.9		µg/Kg	0.99	3/9/02
1,1,2,2-Tetrachloroethane	ND	4.9		µg/Kg	0.99	3/9/02
1,1,2-Trichloroethane	ND	4.9		µg/Kg	0.99	3/9/02
1,1-Dichloroethane	ND	4.9		µg/Kg	0.99	3/9/02
1,1-Dichloroethene	ND	4.9		µg/Kg	0.99	3/9/02
1,1-Dichloropropene	ND	4.9		µg/Kg	0.99	3/9/02
1,2,3-Trichlorobenzene	ND	4.9		µg/Kg	0.99	3/9/02
1,2,3-Trichloropropane	ND	4.9		µg/Kg	0.99	3/9/02
1,2,4-Trichlorobenzene	ND	4.9		µg/Kg	0.99	3/9/02
1,2,4-Trimethylbenzene	ND	4.9		µg/Kg	0.99	3/9/02
1,2-Dibromo-3-chloropropane	ND	9.9		µg/Kg	0.99	3/9/02
1,2-Dibromoethane	ND	4.9		µg/Kg	0.99	3/9/02
1,2-Dichlorobenzene	ND	4.9		µg/Kg	0.99	3/9/02
1,2-Dichloroethane	ND	4.9		µg/Kg	0.99	3/9/02
1,2-Dichloropropane	ND	4.9		µg/Kg	0.99	3/9/02
1,3,5-Trimethylbenzene	ND	4.9		µg/Kg	0.99	3/9/02
1,3-Dichlorobenzene	ND	4.9		µg/Kg	0.99	3/9/02
1,3-Dichloropropane	ND	4.9		µg/Kg	0.99	3/9/02
1,4-Dichlorobenzene	ND	4.9		µg/Kg	0.99	3/9/02
2,2-Dichloropropane	ND	4.9		µg/Kg	0.99	3/9/02
2-Chlorotoluene	ND	4.9		µg/Kg	0.99	3/9/02
4-Chlorotoluene	ND	4.9		µg/Kg	0.99	3/9/02
4-Isopropyltoluene	ND	4.9		µg/Kg	0.99	3/9/02
Benzene	ND	4.9		µg/Kg	0.99	3/9/02
Bromobenzene	ND	4.9		µg/Kg	0.99	3/9/02
Bromodichloromethane	ND	4.9		µg/Kg	0.99	3/9/02
Bromoform	ND	4.9		µg/Kg	0.99	3/9/02
Bromomethane	ND	4.9		µg/Kg	0.99	3/9/02
Carbon tetrachloride	ND	4.9		µg/Kg	0.99	3/9/02
Chlorobenzene	ND	4.9		µg/Kg	0.99	3/9/02
Chloroethane	ND	4.9		µg/Kg	0.99	3/9/02
Chloroform	ND	4.9		µg/Kg	0.99	3/9/02
Chloromethane	ND	4.9		µg/Kg	0.99	3/9/02
cis-1,2-Dichloroethene	ND	4.9		µg/Kg	0.99	3/9/02
Dibromochloromethane	ND	4.9		µg/Kg	0.99	3/9/02
Dibromomethane	ND	4.9		µg/Kg	0.99	3/9/02
Dichlorodifluoromethane	ND	4.9		µg/Kg	0.99	3/9/02

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: RA

Advanced Technology Laboratories 3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Print Date: *3/12/02*

CLIENT: Ninyo & Moore
Client Sample ID: NM6B-10
Lab Order: 055717
Project: Walker/USTS, 203571003
Collection Date: 3/6/02 12:05:00 PM
Lab ID: 055717-021B
Matrix: Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS			**EPA 8260B**			
RunID: **MS3_020309A** BatchID: **R02VOCS054**				PrepDate: **3/6/02**		Analyst: JPC
Ethylbenzene	ND	4.9		µg/Kg	0.99	3/9/02
Hexachlorobutadiene	ND	4.9		µg/Kg	0.99	3/9/02
Isopropylbenzene	ND	4.9		µg/Kg	0.99	3/9/02
m,p-Xylene	ND	4.9		µg/Kg	0.99	3/9/02
Methylene chloride	ND	4.9		µg/Kg	0.99	3/9/02
MTBE	ND	4.9		µg/Kg	0.99	3/9/02
n-Butylbenzene	ND	4.9		µg/Kg	0.99	3/9/02
n-Propylbenzene	ND	4.9		µg/Kg	0.99	3/9/02
Naphthalene	ND	4.9		µg/Kg	0.99	3/9/02
o-Xylene	ND	4.9		µg/Kg	0.99	3/9/02
sec-Butylbenzene	ND	4.9		µg/Kg	0.99	3/9/02
Styrene	ND	4.9		µg/Kg	0.99	3/9/02
tert-Butylbenzene	ND	4.9		µg/Kg	0.99	3/9/02
Tetrachloroethene	ND	4.9		µg/Kg	0.99	3/9/02
Toluene	ND	4.9		µg/Kg	0.99	3/9/02
trans-1,2-Dichloroethene	ND	4.9		µg/Kg	0.99	3/9/02
Trichloroethene	ND	4.9		µg/Kg	0.99	3/9/02
Trichlorofluoromethane	ND	4.9		µg/Kg	0.99	3/9/02
Vinyl chloride	ND	4.9		µg/Kg	0.99	3/9/02
VOLATILE ORGANIC COMPOUNDS BY GC/MS			**EPA 8260B**			
RunID: **MS3_020309A** BatchID: **R02VOCS054**				PrepDate: **3/6/02**		Analyst: JPC
1,2-Dibromoethane	ND	4.9		µg/Kg	0.99	3/9/02
1,2-Dichloroethane	ND	4.9		µg/Kg	0.99	3/9/02
Di-isopropyl ether	ND	4.9		µg/Kg	0.99	3/9/02
Ethyl Tert-butyl ether	ND	4.9		µg/Kg	0.99	3/9/02
Tert-amyl methyl ether	ND	4.9		µg/Kg	0.99	3/9/02
Tert-Butanol	ND	99		µg/Kg	0.99	3/9/02

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored, Highly Reactive

Initials: RA

Advanced Technology Laboratories 3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Print Date: *3/12/02*

CLIENT: Ninyo & Moore
Client Sample ID: NM6B-20
Lab Order: 055717
Project: Walker/USTS, 203571003
Collection Date: 3/6/02 12:12:00 PM
Lab ID: 055717-023A
Matrix: Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
HYDROCARBON CHAIN IDENTIFICATION			**EPA 8015B**			
RunID: **GC7_020307A** BatchID: **7803**				PrepDate: **3/7/02**		Analyst: IG
T/R Hydrocarbons: C10-C12	ND	10		mg/Kg	1.0	3/7/02
T/R Hydrocarbons: C13-C15	ND	10		mg/Kg	1.0	3/7/02
T/R Hydrocarbons: C16-C22	ND	10		mg/Kg	1.0	3/7/02
T/R Hydrocarbons: C23-C32	ND	10		mg/Kg	1.0	3/7/02
T/R Hydrocarbons: >C32	ND	10		mg/Kg	1.0	3/7/02

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
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Initials: RA

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Print Date: *3/12/02*

CLIENT: Ninyo & Moore **Client Sample ID:** NM6B-20
Lab Order: 055717
Project: Walker/USTS, 203571003 **Collection Date:** 3/6/02 12:12:00 PM
Lab ID: 055717-023B **Matrix:** Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				**EPA 8260B**		
RunID: **MS3_020309A** BatchID: **R02VOCS054**				PrepDate: **3/6/02**		Analyst: **JPC**
1,1,1,2-Tetrachloroethane	ND	4.2		µg/Kg	0.84	3/9/02
1,1,1-Trichloroethane	ND	4.2		µg/Kg	0.84	3/9/02
1,1,2,2-Tetrachloroethane	ND	4.2		µg/Kg	0.84	3/9/02
1,1,2-Trichloroethane	ND	4.2		µg/Kg	0.84	3/9/02
1,1-Dichloroethane	ND	4.2		µg/Kg	0.84	3/9/02
1,1-Dichloroethene	ND	4.2		µg/Kg	0.84	3/9/02
1,1-Dichloropropene	ND	4.2		µg/Kg	0.84	3/9/02
1,2,3-Trichlorobenzene	ND	4.2		µg/Kg	0.84	3/9/02
1,2,3-Trichloropropane	ND	4.2		µg/Kg	0.84	3/9/02
1,2,4-Trichlorobenzene	ND	4.2		µg/Kg	0.84	3/9/02
1,2,4-Trimethylbenzene	ND	4.2		µg/Kg	0.84	3/9/02
1,2-Dibromo-3-chloropropane	ND	8.4		µg/Kg	0.84	3/9/02
1,2-Dibromoethane	ND	4.2		µg/Kg	0.84	3/9/02
1,2-Dichlorobenzene	ND	4.2		µg/Kg	0.84	3/9/02
1,2-Dichloroethane	ND	4.2		µg/Kg	0.84	3/9/02
1,2-Dichloropropane	ND	4.2		µg/Kg	0.84	3/9/02
1,3,5-Trimethylbenzene	ND	4.2		µg/Kg	0.84	3/9/02
1,3-Dichlorobenzene	ND	4.2		µg/Kg	0.84	3/9/02
1,3-Dichloropropane	ND	4.2		µg/Kg	0.84	3/9/02
1,4-Dichlorobenzene	ND	4.2		µg/Kg	0.84	3/9/02
2,2-Dichloropropane	ND	4.2		µg/Kg	0.84	3/9/02
2-Chlorotoluene	ND	4.2		µg/Kg	0.84	3/9/02
4-Chlorotoluene	ND	4.2		µg/Kg	0.84	3/9/02
4-Isopropyltoluene	ND	4.2		µg/Kg	0.84	3/9/02
Benzene	ND	4.2		µg/Kg	0.84	3/9/02
Bromobenzene	ND	4.2		µg/Kg	0.84	3/9/02
Bromodichloromethane	ND	4.2		µg/Kg	0.84	3/9/02
Bromoform	ND	4.2		µg/Kg	0.84	3/9/02
Bromomethane	ND	4.2		µg/Kg	0.84	3/9/02
Carbon tetrachloride	ND	4.2		µg/Kg	0.84	3/9/02
Chlorobenzene	ND	4.2		µg/Kg	0.84	3/9/02
Chloroethane	ND	4.2		µg/Kg	0.84	3/9/02
Chloroform	ND	4.2		µg/Kg	0.84	3/9/02
Chloromethane	ND	4.2		µg/Kg	0.84	3/9/02
cis-1,2-Dichloroethene	ND	4.2		µg/Kg	0.84	3/9/02
Dibromochloromethane	ND	4.2		µg/Kg	0.84	3/9/02
Dibromomethane	ND	4.2		µg/Kg	0.84	3/9/02
Dichlorodifluoromethane	ND	4.2		µg/Kg	0.84	3/9/02

Qualifiers:
ND - Not Detected at the Reporting Limit
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B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: RA

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Print Date: *3/12/02*

CLIENT: Ninyo & Moore
Client Sample ID: NM6B-20
Lab Order: 055717
Project: Walker/USTS, 203571003
Collection Date: 3/6/02 12:12:00 PM
Lab ID: 055717-023B
Matrix: Soil

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				**EPA 8260B**		
RunID: **MS3_020309A** BatchID: **R02VOCS054**				PrepDate: **3/6/02**		Analyst: JPC
Ethylbenzene	ND	4.2		µg/Kg	0.84	3/9/02
Hexachlorobutadiene	ND	4.2		µg/Kg	0.84	3/9/02
Isopropylbenzene	ND	4.2		µg/Kg	0.84	3/9/02
m,p-Xylene	ND	4.2		µg/Kg	0.84	3/9/02
Methylene chloride	ND	4.2		µg/Kg	0.84	3/9/02
MTBE	ND	4.2		µg/Kg	0.84	3/9/02
n-Butylbenzene	ND	4.2		µg/Kg	0.84	3/9/02
n-Propylbenzene	ND	4.2		µg/Kg	0.84	3/9/02
Naphthalene	ND	4.2		µg/Kg	0.84	3/9/02
o-Xylene	ND	4.2		µg/Kg	0.84	3/9/02
sec-Butylbenzene	ND	4.2		µg/Kg	0.84	3/9/02
Styrene	ND	4.2		µg/Kg	0.84	3/9/02
tert-Butylbenzene	ND	4.2		µg/Kg	0.84	3/9/02
Tetrachloroethene	ND	4.2		µg/Kg	0.84	3/9/02
Toluene	ND	4.2		µg/Kg	0.84	3/9/02
trans-1,2-Dichloroethene	ND	4.2		µg/Kg	0.84	3/9/02
Trichloroethene	ND	4.2		µg/Kg	0.84	3/9/02
Trichlorofluoromethane	ND	4.2		µg/Kg	0.84	3/9/02
Vinyl chloride	ND	4.2		µg/Kg	0.84	3/9/02
VOLATILE ORGANIC COMPOUNDS BY GC/MS				**EPA 8260B**		
RunID: **MS3_020309A** BatchID: **R02VOCS054**				PrepDate: **3/6/02**		Analyst: JPC
1,2-Dibromoethane	ND	4.2		µg/Kg	0.84	3/9/02
1,2-Dichloroethane	ND	4.2		µg/Kg	0.84	3/9/02
Di-isopropyl ether	ND	4.2		µg/Kg	0.84	3/9/02
Ethyl Tert-butyl ether	ND	4.2		µg/Kg	0.84	3/9/02
Tert-amyl methyl ether	ND	4.2		µg/Kg	0.84	3/9/02
Tert-Butanol	ND	84		µg/Kg	0.84	3/9/02

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
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E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: RA

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040*

CHAIN OF CUSTODY RECORD

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90807
(562) 989-4045 • Fax (562) 989-4040

FOR LABORATORY USE ONLY:

P.O.#:
Logged By: Date: Time:

Method of Transport: Walk-in ☑ Courier ☐ UPS ☐ FED. EXP. ☐ ATL ☐

Sample Condition Upon Receipt:
1. CHILLED 12°C Y☑ N☐
2. HEADSPACE (VOA) Y☐ N☐ N/A
3. CONTAINER INTACT Y☑ N☐
4. SEALED Y☐ N☑
5. # OF SPLS MATCH COC Y☑ N☐
6. PRESERVED Y☐ N☑

Client: Ninyo & Moore
Attn: Paul Roberts
Address: 475 Goddard Ste 200
City: Irvine State: CA Zip Code: 92618
TEL: (949) 753-7070
FAX: (949) 753-7071

Project Name: Walker/USTS
Project #: 203571003
Sampler: (Printed Name) Julie Wozencraft (Signature) [signature]

Relinquished by: (Signature and Printed Name) [signature] Julie Wozencraft Date: 3/6/02 Time: 5:25 Received by: (Signature and Printed Name) [signature] Date: 3/6/02 Time: 5:25 pm
Relinquished by: (Signature and Printed Name) Date: Time: Received by: (Signature and Printed Name) Date: Time:
Relinquished by: (Signature and Printed Name) Date: Time: Received by: (Signature and Printed Name) Date: Time:

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter: Julie Wozencraft 3/6/02
Print Name / Date
[signature]
Signature

Send Report To:
Attn: Paul Roberts
Co: Ninyo & Moore
Address: 475 Goddard Ste 200
City: Irvine State: CA Zip: 92618

Bill To:
Attn: ← Same
Co:
Address:
City: State: Zip:

Special Instructions/Comments: Need results by Tuesday, March 12, 2002

Unless otherwise requested, all samples will be disposed 45 days after receipt.

Sample Archive/Disposal:
☐ Laboratory Standard
☐ Other
☐ Return To:
* $10.00 FEE PER HAZARDOUS SAMPLE DISPOSAL.

Circle or Add Analysis(es) Requested: 8081/8082 (Pesticide/PCB GC); 8260 (Volatiles GC/MS); 625/8270 (BNA GC/MS); Metals Total (CAC 6010/7000); 8015M TPHG/BTEX (COMBINATION); 8015M TPHD (Diesel GC); 8260B (MTBE + fuel oxygenates); 8015m (TPHg)

CIRCLE APPROPRIATE MATRIX: SOLID • (SOIL) • SLUDGE; OIL • SOLVENT • LIQUID; WATER • WASTEWATER; DRINKING WATER; AIR; WIPE • FILTER; OTHER

QA/QC: RTNE ☐ RWQCB ☐ WIP ☐ NAVY ☐ CT ☐ OTHER

LAB USE ONLY: Batch #: Lab No.	Sample I.D.	Date	Time	8260B (MTBE + fuel oxygenates)	8015m (TPHg)	SOIL	TAT	Container(s) #	Type	REMARKS
055717-001	NM4A-5	3/6/02	12:30	X		X	4 days	4	T V	
-002	NM4A-10		12:35	X	X	X		4	T V	
-003	NM4A-15		12:39			X		1	T P	hold
-004	NM4A-20		12:44	X		X		4	T V	
-005	NM4A-25		12:50			X		1	T P	hold
-006	NM4A-30		1:05	X		X		4	T V	
-007	NM4A-35		2:00	X		X		4	T V	
~~-008~~	~~NM4A-40~~			~~X~~		~~X~~				
-008	NM4B-5		2:12	X		X		4	T V	
-009	NM4B-10		2:17	X		X		4	T V	

* TAT starts 8 a.m. following day if samples received after 5 p.m.

TAT: A= Overnight ≤ 24 hr B= Emergency Next workday C= Critical 2 Workdays D= Urgent 3 Workdays E= Routine 7 Workdays

Preservatives: H=Hcl N=HNO_3 S=H_2SO_4 C=4°C Z=Zn(AC)$_2$ O=NaOH T=$Na_2S_2O_3$

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

DISTRIBUTION: White with report, Yellow to folder, Pink to submitter.

CHAIN OF CUSTODY RECORD

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90807
(562) 989-4045 • Fax (562) 989-4040

FOR LABORATORY USE ONLY:

P.O.#: _____

Logged By: _____ Date: _____ Time: _____

Method of Transport: Walk-in ☑ Courier ☐ UPS ☐ FED. EXP. ☐ ATL ☐

Sample Condition Upon Receipt:
1. CHILLED 12°C Y☑ N☐ 4. SEALED Y☐ N☑
2. HEADSPACE (VOA) Y☐ N/A☐ 5. # OF SPLS MATCH COC Y☑ N☐
3. CONTAINER INTACT Y☑ N☐ 6. PRESERVED Y☐ N☑

Client: Ninyo & Moore
Attn: Paul Roberts
Address: 475 Goddard Ste 200
City Irvine State CA Zip Code 92618
TEL: (949) 753-7070
FAX: (949) 753-7071

Project Name: Walker/USTs Project #: 203571003 Sampler: (Printed Name) Julie Wozencraft (Signature) Julie Wozencraft

Relinquished by: (Signature and Printed Name) Julie Wozencraft Julie Wozencraft Date: 3/6/02 Time: 5:25 Received by: (Signature and Printed Name) Date: 3/6/02 Time: 5:25 pm

Relinquished by: (Signature and Printed Name) Date: Time: Received by: (Signature and Printed Name) Date: Time:

Relinquished by: (Signature and Printed Name) Date: Time: Received by: (Signature and Printed Name) Date: Time:

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter:
Julie Wozencraft 3/6/02
Print Name Date
Julie Wozencraft
Signature

Send Report To: Attn: Paul Roberts
Co:
Address
City State Zip

Bill To: Attn: Co: Address City State Zip

Special Instructions/Comments:
Need results by Tuesday March 12, 2002

Unless otherwise requested, all samples will be disposed 45 days after receipt.

Sample Archive/Disposal:
☐ Laboratory Standard
☐ Other
☐ Return To:
* $10.00 FEE PER HAZARDOUS SAMPLE DISPOSAL

ITEM	LAB USE ONLY: Batch #: / Lab No.	Sample Description: Sample I.D.	Date	Time
	-010	NM4B-15	3/6/02	2:22
	-011	NM4B-20		2:30
	-012	NM6A-5		7:26
	-013	NM6A-10		7:32
	-014	NM6A-15		7:40
	-015	NM6A-20		7:45
	-016	NM6A-25		8:00
	-017	NM6A-30		8:50
	-018	NM6A-35		9:25
	-019	NM6A-40		9:35

Circle or Add Analysis(es) Requested: 8081 / 8082 (Pesticides/PCB-GC); 8260 (Volatiles-GC/MS); 625 / 8270 (BNA-GC/MS); Metals: Total (CAC-6010 / 7000); 8015M TPHG/BTEX (COMBINATION); 8015M TPHD (Diesel-GC); 8015m (TPHo); 8260B (MTBE fuel oxygenates); 8015m (TPHg)

CIRCLE APPROPRIATE MATRIX: SOLID (SOIL) SLUDGE; OIL • SOLVENT • LIQUID; WATER • WASTEWATER; DRINKING WATER; AIR; WIPE • FILTER; OTHER

ITEM	TAT	Container(s) #	Type	PRESERVATION	REMARKS
	48hrs	1	T P		
		4	T V		
		4	T V		
		4	T V		
		1	T P		hold
		4	T V		
		1	T P		hold
		4	T V		
		1	T P		hold
		4	T V		

QA / QC: RTNE ☐ RWQCB ☐ WIP ☐ NAVY ☐ CT ☐ OTHER

* TAT starts 8 a.m. following day if samples received after 5 p.m.

TAT: A= Overnight ≤ 24 hr B= Emergency Next workday C= Critical 2 Workdays D= Urgent 3 Workdays E= Routine 7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

Preservatives: H=Hcl N=HNO_3 S=H_2SO_4 C=4°C Z=$Zn(AC)_2$ O=NaOH T=$Na_2S_2O_3$

DISTRIBUTION: **White** with report, **Yellow** to folder, **Pink** to submitter.

CHAIN OF CUSTODY RECORD

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90807
(562) 989-4045 • Fax (562) 989-4040

FOR LABORATORY USE ONLY:

P.O.#: _____
Logged By: _____ Date: _____ Time: _____

Method of Transport: Walk-in ☐ Courier ☐ UPS ☐ FED. EXP. ☐ ATL ☐

Sample Condition Upon Receipt:
1. CHILLED 20 Y☒ N☐ 4. SEALED Y☐ N☒
2. HEADSPACE (VOA) Y☐ N☐ n/a 5. # OF SPLS MATCH COC Y☑ N☐
3. CONTAINER INTACT Y☒ N☐ 6. PRESERVED Y☐ N☒

Client: Ninyo & Moore
Attn: Paul Roberts
Address: 475 Goddard Ste 200
City Irvine State CA Zip Code 92618
TEL: (949) 753-7070
FAX: (949) 753-7071

Project Name: Walker/USTs Project #: 203571003 Sampler: (Printed Name) Julie Wozencraft (Signature)

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Julie Wozencraft Julie Wozencraft	3/6/02	5:25pm		3/6/02	5:25pm
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter:
Julie Wozencraft 3/6/02
Print Name Date
Signature

Send Report To:
Attn: Paul Roberts
Co: _____
Address _____
City _____ State _____ Zip _____

Bill To:
Attn: _____
Co: _____
Address _____
City _____ State _____ Zip _____

Special Instructions/Comments:
Need Results by Tuesday March 12, 2002

Unless otherwise requested, all samples will be disposed 45 days after receipt.

Sample Archive/Disposal:
☐ Laboratory Standard
☐ Other _____
☐ Return To: _____
* $10.00 FEE PER HAZARDOUS SAMPLE DISPOSAL

Circle or Add Analysis(es) Requested

CIRCLE APPROPRIATE MATRIX: SOLID (SOIL) • SLUDGE • OIL • SOLVENT • LIQUID • WATER • WASTEWATER • DRINKING WATER • AIR • WIPE • FILTER • OTHER

PRESERVATION

QA/QC: RTNE ☐ RWQCB ☐ WIP ☐ NAVY ☐ CT ☐ OTHER ☐

ITEM	LAB USE ONLY: Batch #: / Lab No.	Sample Description: Sample I.D.	Date	Time	8015m (TPHd) 8260B (MTBE+fuel oxygenates) 6010/7000 (Title 22 metals)	TAT	Container(s) #	Type	REMARKS
	-020	NM6B-5	3/6/02	12:00	X X	4 days	4	VT	
	-021	NM6B-10		12:05	X X		4	VT	
	-022	NM6B-15		12:08			1	TP	hold
	-023	NM6B-20		12:12	X X		4	VT	
	-024	NM5A-5		9:55	X X		4	VT	
	-025	NM5A-10		10:00	X X X		4	VT	
	-026	NM5A-15		10:05			1	TP	hold
	-027	NM5A-20		10:10	X X		4	VT	
	-028	NM5A-25		10:18			1	TP	hold
	-029	NM5A-30		10:45	X X		4	VT	

* TAT starts 8 a.m. following day if samples received after 5 p.m.

TAT: A= Overnight ≤ 24 hr B= Emergency Next workday C= Critical 2 Workdays D= Urgent 3 Workdays E= Routine 7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

Preservatives: H=HCl N=HNO_3 S=H_2SO_4 C=4°C Z=$Zn(AC)_2$ O=NaOH T=$Na_2S_2O_3$

DISTRIBUTION: White with report, Yellow to folder, Pink to submitter.

CHAIN OF CUSTODY RECORD

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90807
(562) 989-4045 • Fax (562) 989-4040

FOR LABORATORY USE ONLY:

P.O.#: _____
Logged By: _____ Date: _____ Time: _____

Method of Transport: Walk-in ☐ Courier ☐ UPS ☐ FED. EXP. ☐ ATL ☐

Sample Condition Upon Receipt:
1. CHILLED 12° Y☑ N☐ 4. SEALED Y☐ N☑
2. HEADSPACE (VOA) Y☐ N☐ N/A 5. # OF SPLS MATCH COC Y☑ N☐
3. CONTAINER INTACT Y☑ N☐ 6. PRESERVED Y☐ N☑

Client: Ninyo & Moore
Attn: Paul Roberts
Address: 475 Goddard Ste 200
City Irvine State CA Zip Code 92618
TEL: (949) 753-7070
FAX: (949) 753-7071

Project Name: Walker / USTs Project #: 2035 71003 Sampler: (Printed Name) Julie Wozencraft (Signature) Julie Wozencraft

Relinquished by: (Signature and Printed Name) Julie Wozencraft Julie Wozencraft Date: 3/6/02 Time: 5:25pm
Received by: (Signature and Printed Name) [signature] Date: 3/6/02 Time: 5:25pm

Relinquished by: (Signature and Printed Name) Date: Time:
Received by: (Signature and Printed Name) Date: Time:

Relinquished by: (Signature and Printed Name) Date: Time:
Received by: (Signature and Printed Name) Date: Time:

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter: Julie Wozencraft 3/6/02
Print Name Date
Julie Wozencraft
Signature

Send Report To:
Attn: Paul Roberts
Co:
Address
City State Zip

Bill To:
Attn:
Co:
Address
City State Zip

Special Instructions/Comments:
Need Results by Tuesday March 12, 2002

Unless otherwise requested, all samples will be disposed 45 days after receipt.

Sample Archive/Disposal:
☐ Laboratory Standard
☐ Other
☐ Return To:
* $10.00 FEE PER HAZARDOUS SAMPLE DISPOSAL.

Circle or Add Analysis(es) Requested: 8081 / 8082 (Pesticides/PCB-GC); 8260 (Volatiles-GC/MS); 8270 (BNA-GC/MS); Metals: Total (CAC-6010 / 7000); 8015M TPHG/BTEX (COMBINATION); 8015M TPHD (Diesel-GC); 8015m (TPHg) 8260B (MTBE+fuel oxygenates) 6010/7000 (Ti the 22 metals) 8260B (VOCs, MTBE, fuel oxygenates)

CIRCLE APPROPRIATE MATRIX: SOLID (SOIL) • SLUDGE; OIL • SOLVENT • LIQUID; WATER • WASTEWATER; DRINKING WATER; AIR; WIPE • FILTER; OTHER

ITEM	LAB USE ONLY: Batch #: / Lab No.	Sample I.D.	Date	Time	TAT	Container(s) #	Type	PRESERVATION	REMARKS
	-030	NM5A-35	3/6/02	10:58	4 days	1	T P		hold
	-031	NM5A-40		11:10		4	V T		
	-032	NM5B-5		11:32		4	V T		
	-033	NM5B-10		11:36		4	V T		
	-034	NM5B-15		11:43		1	T P		hold
	-035	NM5B-20		11:50		4	V T		
	-036	NM1A-5		2:50		4	V T		
	-037	NM1A-10		2:55		4	V T		
	-038	NM1A-15		3:00		1	T P		hold
	-039	NM1A-20		3:05		4	V T		

QA/QC: RTNE ☐ RWQCB ☐ WIP ☐ NAVY ☐ CT ☐ OTHER

* TAT starts 8 a.m. following day if samples received after 5 p.m.

TAT: A= Overnight ≤ 24 hr B= Emergency Next workday C= Critical 2 Workdays D= Urgent 3 Workdays E= Routine 7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

Preservatives: H=Hcl N=HNO_3 S=H_2SO_4 C=4°C Z=Zn(AC)$_2$ O=NaOH T=$Na_2S_2O_3$

DISTRIBUTION: White with report, Yellow to folder, Pink to submitter.

FOR LABORATORY USE ONLY:

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Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90807
(562) 989-4045 • Fax (562) 989-4040

P.O.#: ______
Logged By: ______ Date: ______ Time: ______

Method of Transport: Walk-in ☑ Courier ☐ UPS ☐ FED. EXP. ☐ ATL ☐

Sample Condition Upon Receipt:
1. CHILLED 12°C Y ☑ N ☐
2. HEADSPACE (VOA) Y ☐ N ☐ N/A
3. CONTAINER INTACT Y ☑ N ☐
4. SEALED Y ☐ N ☐
5. # OF SPLS MATCH COC Y ☑ N ☐
6. PRESERVED Y ☐ N ☑

Client: Ninyo & Moore
Attn: Paul Roberts
Address: 475 Goddard Ste 200
City: Irvine State: CA Zip Code: 92618
TEL: (949) 753-7070
FAX: (949) 753-7071

Project Name: Walker / USTs
Project #: 203571003
Sampler: (Printed Name) Julie Wozencraft (Signature) [signature]

Relinquished by: (Signature and Printed Name) [signature] Julie Wozencraft Date: 3/6/02 Time: 5:25 pm
Received by: (Signature and Printed Name) [signature] Date: 3/6/02 Time: 5:25
Relinquished by: (Signature and Printed Name) Date: Time:
Received by: (Signature and Printed Name) Date: Time:
Relinquished by: (Signature and Printed Name) Date: Time:
Received by: (Signature and Printed Name) Date: Time:

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter:
Julie Wozencraft 3/6/02
Print Name Date
[signature]
Signature

Send Report To:
Attn: Paul Roberts
Co:
Address:
City: State: Zip:

Bill To:
Attn:
Co:
Address:
City: State: Zip:

Special Instructions/Comments:
Need Results by Tuesday March 12, 2002

Unless otherwise requested, all samples will be disposed 45 days after receipt.

Sample Archive/Disposal:
☐ Laboratory Standard
☐ Other ______
☐ Return To: ______

* $10.00 FEE PER HAZARDOUS SAMPLE DISPOSAL.

Circle or Add Analysis(es) Requested: 8081/8082 (Pesticides/PCB-GC); 8260 (Volatiles-GC/MS); 625/8270 (BNA-GC/MS); Metals-Total (CAC-6010/7000); 8015M TPH/G/BTEX (COMBINATION); 8015M TPH/D (Diesel/GC); 8260B (VOCs, MTBE, fuel oxygenates); 8260B (MTBE, fuel oxygenates)

CIRCLE APPROPRIATE MATRIX: SOLID • (SOIL) • SLUDGE; OIL • SOLVENT • LIQUID; WATER • WASTEWATER; DRINKING WATER; AIR; WIPE • FILTER; OTHER

QA/QC: RTNE ☐ RWQCB ☐ WIP ☐ NAVY ☐ CT ☐ OTHER ______

LAB USE ONLY: Batch #: Lab No.	Sample I.D.	Date	Time	8260B (VOCs, MTBE, fuel oxygenates)	8260B (MTBE, fuel oxygenates)	Matrix: Solid/Soil	TAT	Container(s) #	Type	Preservation	Remarks
-040	NMIA-25	3/6/02	3:12			X	4 days	1	T	P	hold
-041	NMIA-30		3:26	X		X		4	V	T	
-042	NMIB-5		3:35	X		X		4	V	T	
-043	NMIB-10		3:40	X		X		4	V	T	
-044	NMIB-15		3:45			X		1	T	P	hold
-045	NMIB-20		3:50	X		X		4	V	T	
-046	NM3B-5		4:07		X	X		4	V	T	
-047	NM3B-10		4:12		X	X		4	V	T	
-048	NM3B-15		4:17			X		1	T	P	hold
-049	NM3B-20		4:25		X	X		4	V	T	

* TAT starts 8 a.m. following day if samples received after 5 p.m.

TAT: A= Overnight ≤ 24 hr B= Emergency Next workday C= Critical 2 Workdays D= Urgent 3 Workdays E= Routine 7 Workdays

Preservatives: H=Hcl N=HNO_3 S=H_2SO_4 C=4°C Z=$Zn(AC)_2$ O=NaOH T=$Na_2S_2O_3$

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

DISTRIBUTION: White with report, Yellow to folder, Pink to submitter.

[redacted]A[redacted]OF[redacted]ST[redacted]Y RECORD

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Signal Hill, CA 90807
(562) 989-4045 • Fax (562) 989-4040

P.O.#: ______
Logged By: ______ Date: ______ Time: ______

Method of Transport	
Walk-in	☑
Courier	☐
UPS	☐
FED. EXP.	☐
ATL	☐

Sample Condition Upon Receipt

1. CHILLED 2.C	Y ☑ N ☐	4. SEALED	Y ☐ N ☑
2. HEADSPACE (VOA)	Y ☐ N ☐ N/A	5. # OF SPLS MATCH COC	Y ☑ N ☐
3. CONTAINER INTACT	Y ☑ N ☐	6. PRESERVED	Y ☐ N ☑

Client: Ninyo & Moore
Attn: Paul Roberts
Address: 475 Goddard Ste 200
City: Irvine State: CA Zip Code: 92618
TEL: (949) 753-7070
FAX: (949) 753-7071

Project Name: Walker / USTs
Project #: 203571003
Sampler: (Printed Name) Julie Wozencraft (Signature) Julie Wozencraft

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Julie Wozencraft Julie Wozencraft	3/7/02	12:15 pm	[signature]	3/7/02	12:21

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter:
Julie Wozencraft 3/7/02
Print Name Date
[signature]
Signature

Send Report To:
Attn: Paul Roberts
Co: Ninyo & Moore
Address: 475 Goddard Ste 200
City: Irvine State: CA Zip: 92618

Bill To:
Attn: ← Same
Co:
Address:
City: State: Zip:

Special Instructions/Comments:
Need results by Tuesday, March 12, 2002

Unless otherwise requested, all samples will be disposed 45 days after receipt.

Sample Archive/Disposal:
☐ Laboratory Standard
☐ Other
☐ Return To:
* $10.00 FEE PER HAZARDOUS SAMPLE DISPOSAL.

Circle or Add Analysis(es) Requested: 8081/8082 (Pesticides/PCB-GC); 8260 (Volatiles-GC/MS); 625/8270 (BNA-GC/MS); Metals-Total (CAC-6010/7000); 8015M TPHG/BTEX (COMBINATION); 8015M TPHD (Diesel-GC); 8260B (MTBE + fuel oxygenates)

Circle Appropriate Matrix: SOLID • (SOIL) • SLUDGE; OIL • SOLVENT • LIQUID; WATER • WASTEWATER; DRINKING WATER; AIR; WIPE • FILTER; OTHER

QA/QC: RTNE ☐ RWQCB ☐ WIP ☐ NAVY ☐ CT ☐ OTHER ____

LAB USE ONLY: Batch #:

Item	Lab No.	Sample I.D.	Date	Time	8260B (MTBE + fuel oxygenates)	Solid/Soil/Sludge	TAT	Container(s) #	Type	Preservation	Remarks
	065731-001	NM3A-5	3/7/02	7:32	X	X	D	4	T V		
	-002	NM3A-10		7:37	X	X	D	4	T V		
	-003	NM3A-15		7:43		X		1	T P		hold
	-004	NM3A-20		7:50	X	X	D	4	T V		
	-005	NM3A-25		8:00		X		1	T P		hold
	-006	NM3A-30		8:30	X	X	D	4	T V		
	~~-007~~	~~NM3A-35~~				X					
	~~-008~~	~~NM3A-40~~				X					
	-007	NM2A-5		8:34	X	X	D	4	T V		
	-08	NM2A-10		8:37	X	X	D	4	T V		

* TAT starts 8 a.m. following day if samples received after 5 p.m.

TAT: A= Overnight ≤ 24 hr; B= Emergency Next workday; C= Critical 2 Workdays; D= Urgent 3 Workdays; E= Routine 7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

Preservatives: H=Hcl N=HNO_3 S=H_2SO_4 C=4°C Z=Zn(AC)$_2$ O=NaOH T=$Na_2S_2O_3$

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CHAIN OF CUSTODY RECORD

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(562) 989-4045 • Fax (562) 989-4040

FOR LABORATORY USE ONLY:

P.O.#: _____

Logged By: _____ Date: _____ Time: _____

Method of Transport: Walk-in ☑ Courier ☐ UPS ☐ FED. EXP. ☐ ATL ☐

Sample Condition Upon Receipt:
1. CHILLED Y☑ N☐ 4. SEALED Y☐ N☑
2. HEADSPACE (VOA) Y☐ N☑ 5. # OF SPLS MATCH COC Y☑ N☐
3. CONTAINER INTACT Y☑ N☐ 6. PRESERVED Y☐ N☑

Client: Ninyo & Moore
Attn: Paul Roberts
Address: 475 Goddard Ste 200
City: Irvine State: CA Zip Code: 92618
TEL: (949) 753-7070
FAX: (949) 753-7071

Project Name: Walker / USTs Project #: 203571003 Sampler: (Printed Name) Julie Wozencraft (Signature) Julie Wozencraft

Relinquished by: (Signature and Printed Name) Julie Wozencraft / Julie Wozencraft Date: 3/7/02 Time: 12:15pm
Received by: (Signature and Printed Name) Date: 3/7/02 Time: 12:21
Relinquished by: (Signature and Printed Name) Date: Time:
Received by: (Signature and Printed Name) Date: Time:
Relinquished by: (Signature and Printed Name) Date: Time:
Received by: (Signature and Printed Name) Date: Time:

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter: Julie Wozencraft 3/7/02 (Print Name / Date)
Julie Wozencraft (Signature)

Send Report To: Attn: Paul Roberts Co: Address: City State Zip

Bill To: Attn: Co: Address: City State Zip

Special Instructions/Comments: Need results by Tuesday, March 12, 2002

Unless otherwise requested, all samples will be disposed 45 days after receipt.

Sample Archive/Disposal:
☐ Laboratory Standard
☐ Other
☐ Return To:
* $10.00 FEE PER HAZARDOUS SAMPLE DISPOSAL.

ITEM	LAB USE ONLY: Batch #: / Lab No.	Sample Description: Sample I.D.	Date	Time	Circle or Add Analysis(es) Requested: #8081 / 8082 (Pesticides/PCB-GC); 8260 (Volatiles-GC/MS); 625 / 8270 (BNA-GC/MS); Metals-Total (CAC-6010 / 7000); 8015M TPHG/BTEX (COMBINATION); 8015M TPHD (Diesel-GC); 8260B (MTBE+ fuel oxygenates)	CIRCLE APPROPRIATE MATRIX: SOLID (SOIL) SLUDGE; OIL • SOLVENT • LIQUID; WATER • WASTEWATER; DRINKING WATER; AIR; WIPE • FILTER; OTHER	TAT	Container(s) #	Container(s) Type	PRESERVATION	REMARKS
	-009	NM2A-15	3/1/02	8:44		SOLID		1	T	P	hold
	-010	NM2A-20		8:50	X	SOLID	D	4	T	V	
	-011	NM2A-25		9:00		SOLID		1	T	P	hold
	-012	NM2A-30		9:05	X	SOLID	D	4	T	V	
	-013	NM2A-35		9:20		SOLID		1	T	P	hold
	-014	NM2A-40		9:40	X	SOLID	D	4	T	V	
	-015	NM2B-5		9:55	X	SOLID	D	4	T	V	
	-016	NM2B-10		10:00	X	SOLID	D	4	T	V	
	-017	NM2B-15		10:05		SOLID		1	T	P	hold
	-018	NM2B-20		10:10	X	SOLID	D	4	T	V	

QA/QC: RTNE ☐ RWQCB ☐ WIP ☐ NAVY ☐ CT ☐ OTHER ____

* TAT starts 8 a.m. following day if samples received after 5 p.m.

TAT: A= Overnight ≤ 24 hr B= Emergency Next workday C= Critical 2 Workdays D= Urgent 3 Workdays E= Routine 7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

Preservatives: H=HCl N=HNO_3 S=H_2SO_4 C=4°C Z=$Zn(AC)_2$ O=NaOH T=$Na_2S_2O_3$

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Signal Hill, CA 90807
(562) 989-4045 • Fax (562) 989-4040

P.O.#: _____
Logged By: _____ Date: _____ Time: _____

Method of Transport: Walk-in ☑ Courier ☐ UPS ☐ FED. EXP. ☐ ATL ☐

Sample Condition Upon Receipt:
1. CHILLED Y☑ N☐ 4. SEALED Y☐ N☑
2. HEADSPACE (VOA) Y☐ N/A 5. # OF SPLS MATCH COC Y☑ N☐
3. CONTAINER INTACT Y☑ N☐ 6. PRESERVED Y☐ N☑

Client: Ninyo & Moore
Attn: Paul Roberts
Address: 475 Goddard Ste 200
City: Irvine State: CA Zip Code: 92618
TEL: (949) 753-7070
FAX: (949) 753-7071

Project Name: Walker / USTs
Project #: 203571003
Sampler: (Printed Name) Julie Wozencraft (Signature) Julie Wozencraft

Relinquished by: (Signature and Printed Name)	Date	Time	Received by: (Signature and Printed Name)	Date	Time
Julie Wozencraft Julie Wozencraft	3/1/02	12:15pm			
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter: Julie Wozencraft 3/1/02 (Print Name / Date)
Julie Wozencraft (Signature)

Send Report To: Attn: Paul Roberts; Co:; Address:; City: State: Zip:

Bill To: Attn:; Co:; Address:; City: State: Zip:

Special Instructions/Comments: Need results by Tuesday, March 12

Unless otherwise requested, all samples will be disposed 45 days after receipt.

Sample Archive/Disposal:
☐ Laboratory Standard
☐ Other
☐ Return To:
* $10.00 FEE PER HAZARDOUS SAMPLE DISPOSAL.

ITEM	LAB USE ONLY: Batch #: / Lab No.	Sample Description: Sample I.D.	Date	Time
	-019	NM1A-35	3/1/02	10:50
		NM1A-40	3/1/02	
	-020	NM4A-10	3/1/02	11:05
	-021	NM4B-15	3/1/02	11:15

Circle or Add Analysis(es) Requested: 8081 / 8082 (Pesticides/PCBs-GC); 8260 (Volatiles-GC/MS); 625 / 8270 (BNA-GC/MS); Metals-Total (CAC-6010 / 7000); 8015M TPHG/BTEX (COMBINATION); 8015M TPHD (Diesel-GC); 8260B (VOCs, MTBE, fuel oxygenates); 8015m (TPHg - gasoline)

CIRCLE APPROPRIATE MATRIX: SOLID (SOIL) SLUDGE; OIL • SOLVENT • LIQUID; WATER • WASTEWATER; DRINKING WATER; AIR; WIPE • FILTER; OTHER

ITEM	TAT	Container(s) #	Container(s) Type	PRESERVATION	REMARKS
	D	4	T V		hold
	D				
	D	3	V 6		
	D	3	V 6		

QA/QC: RTNE ☐ RWQCB ☐ WIP ☐ NAVY ☐ CT ☐ OTHER

* TAT starts 8 a.m. following day if samples received after 5 p.m.

TAT: A= Overnight ≤ 24 hr B= Emergency Next workday C= Critical 2 Workdays D= Urgent 3 Workdays E= Routine 7 Workdays

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